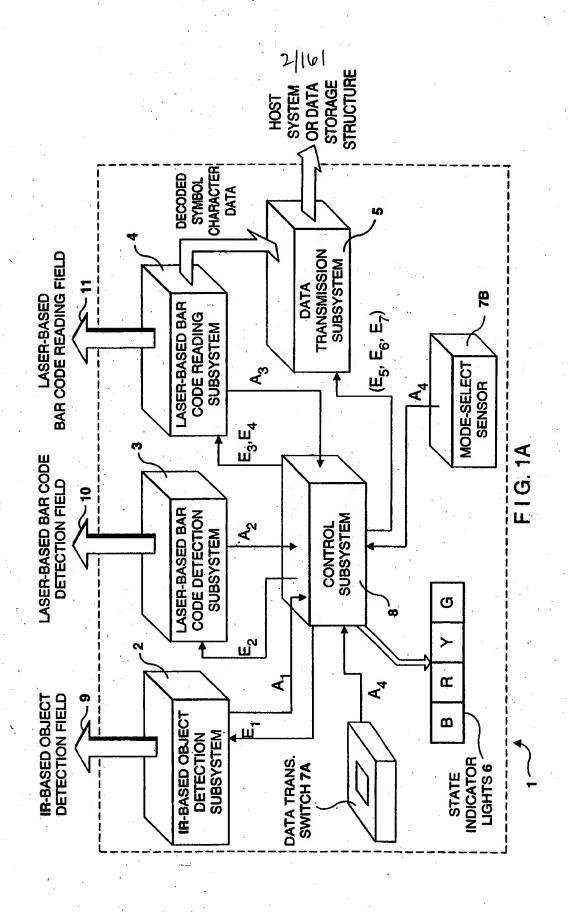
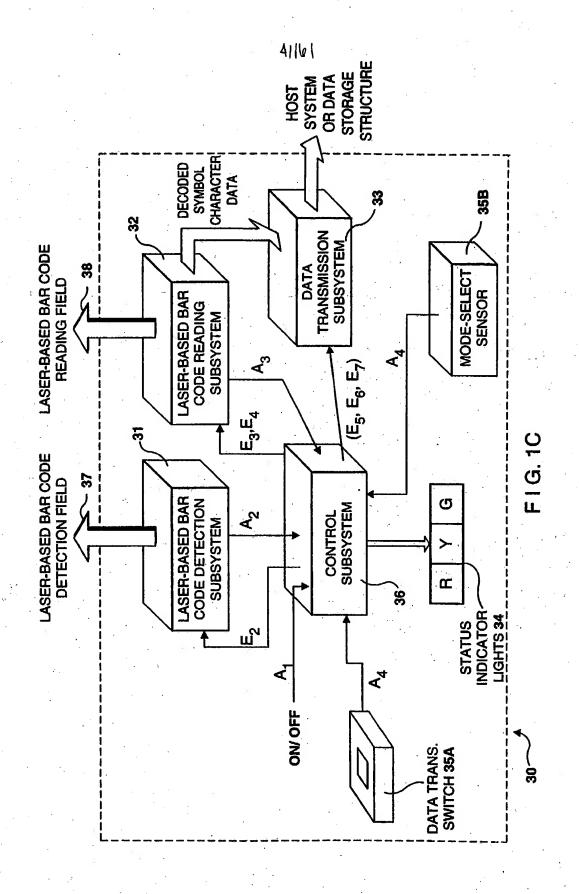
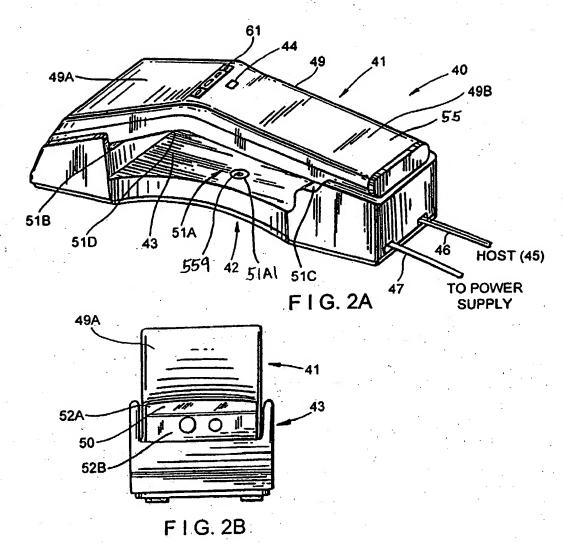
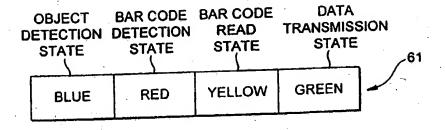


FIG. 1

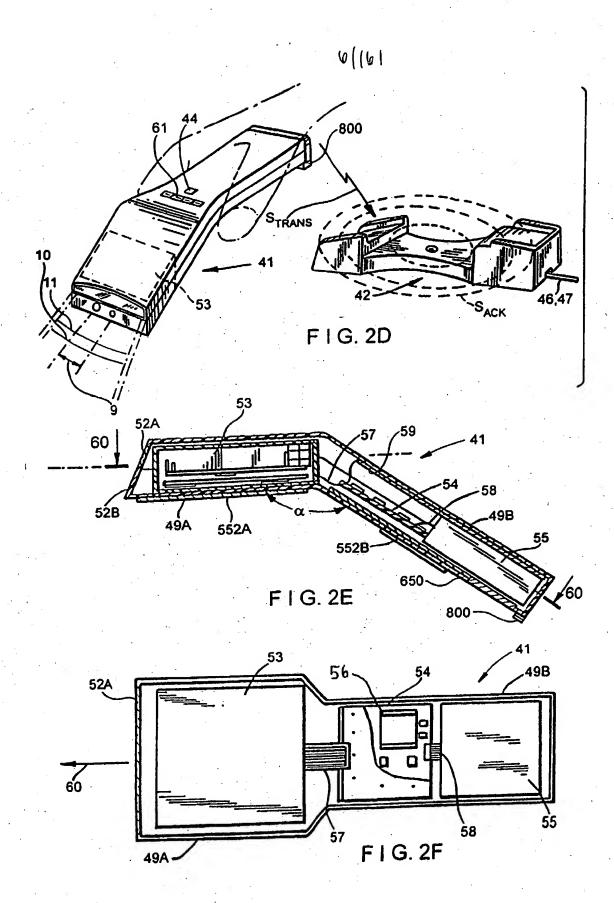


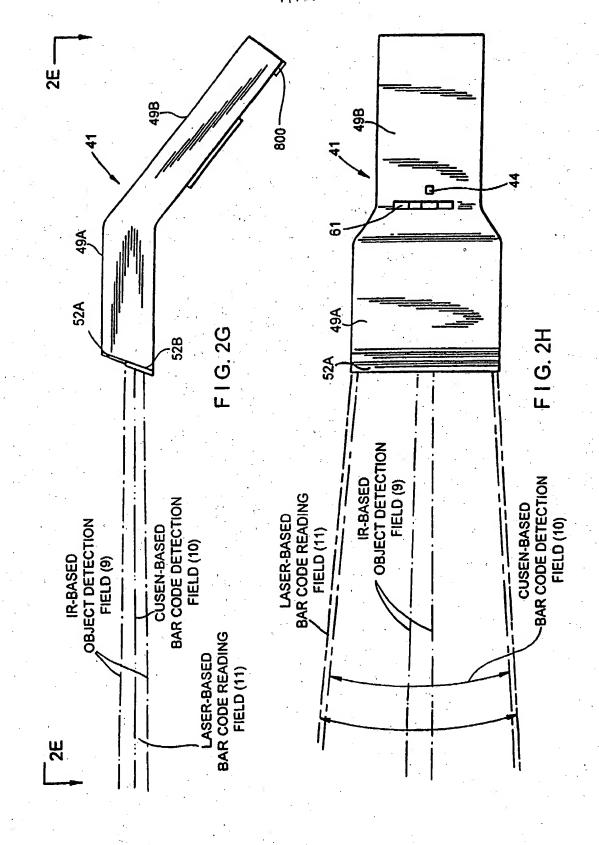


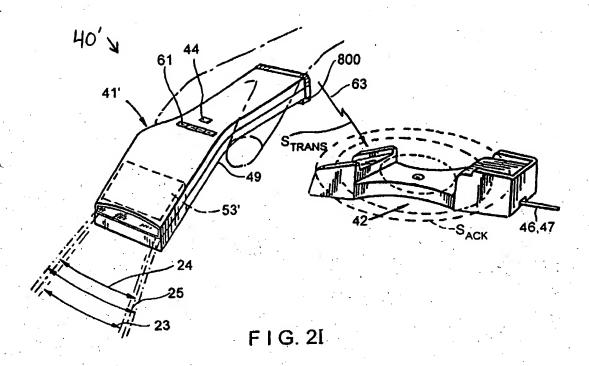


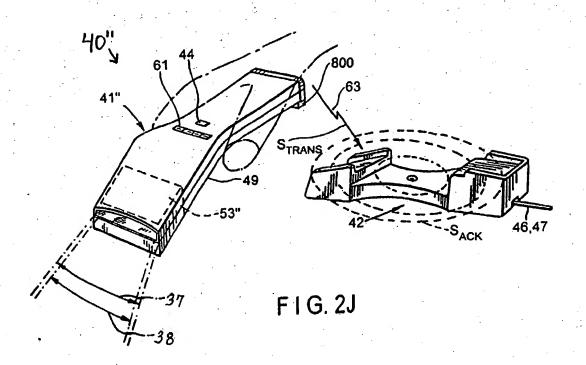


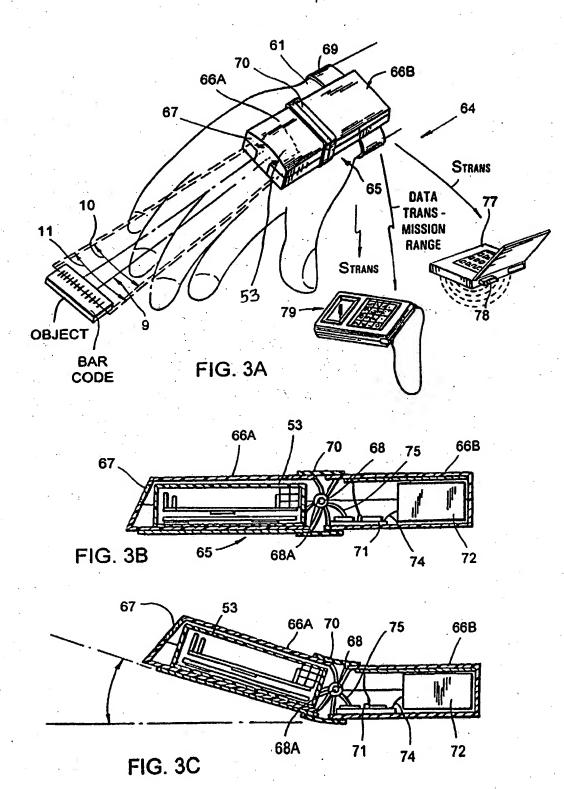
F I G. 2C

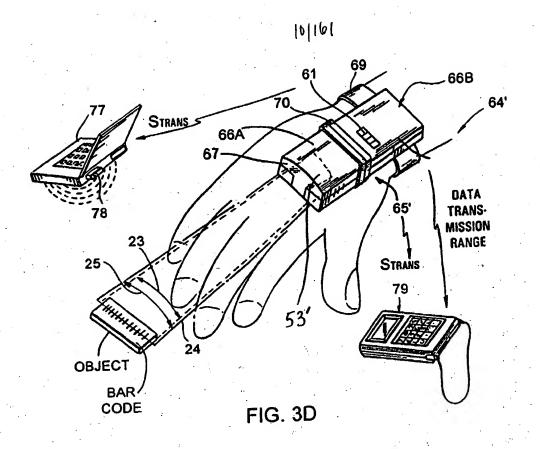


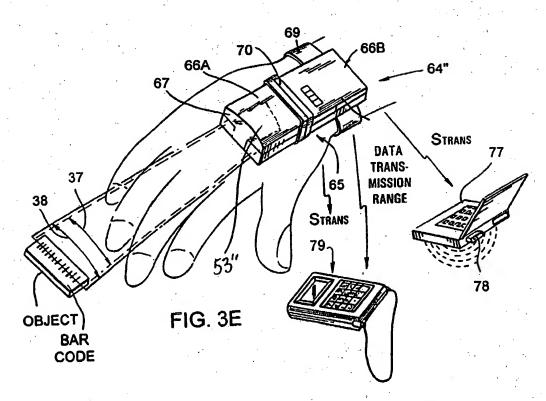


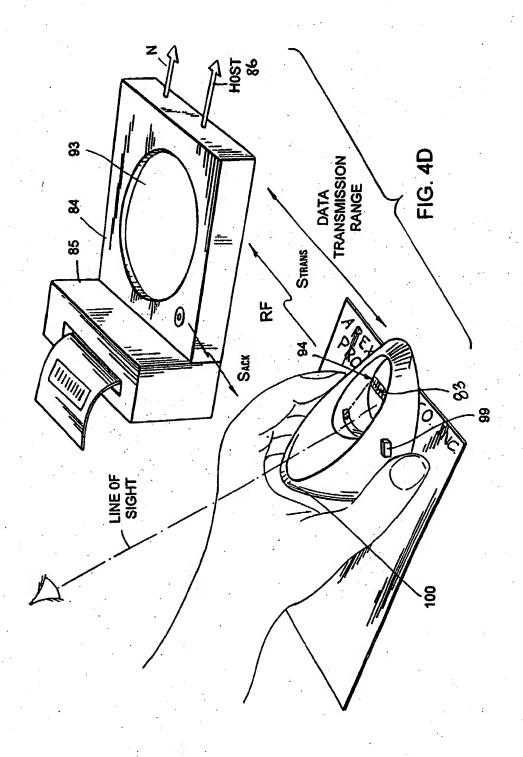












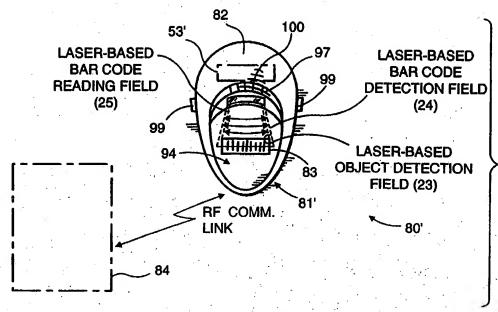


FIG. 4E

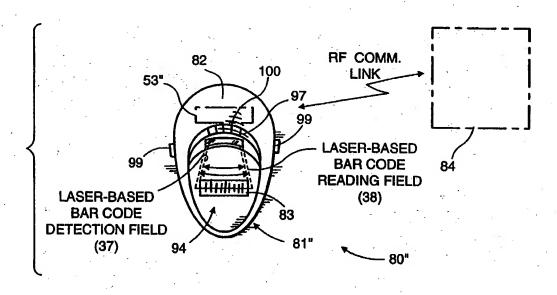
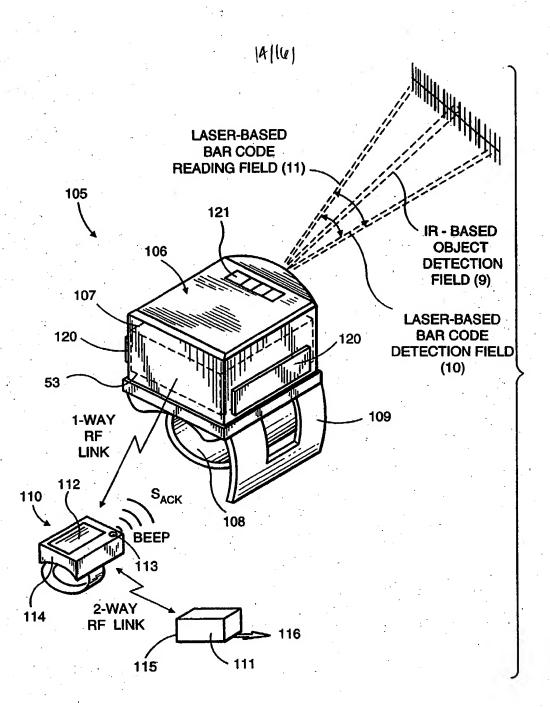
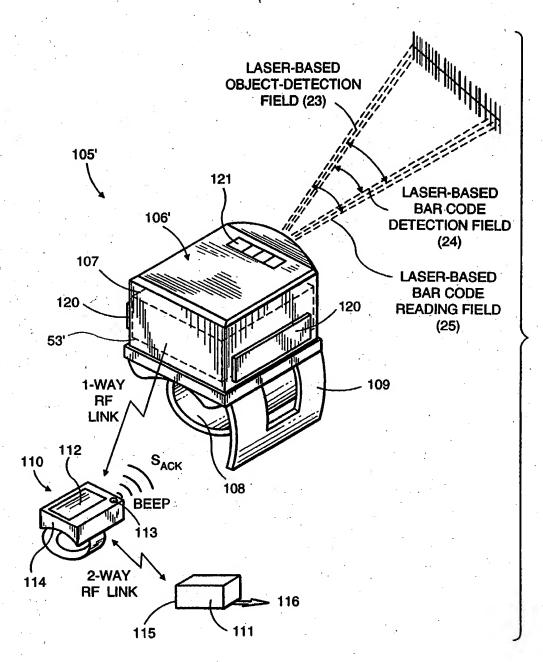


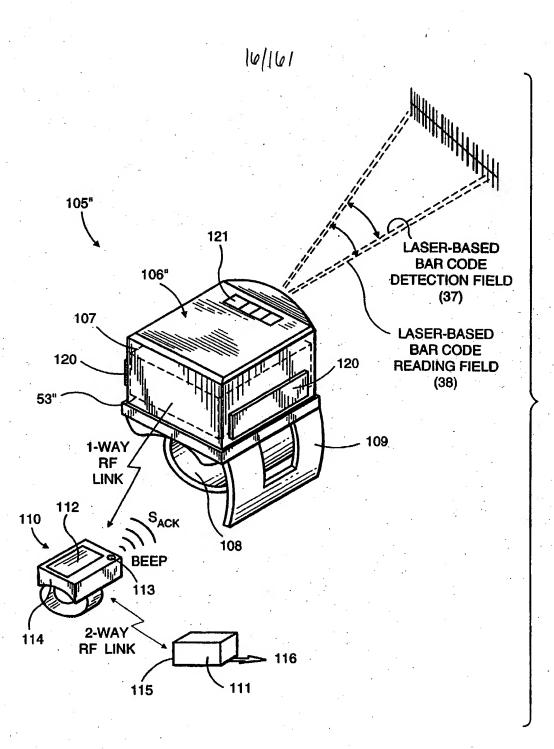
FIG. 4F



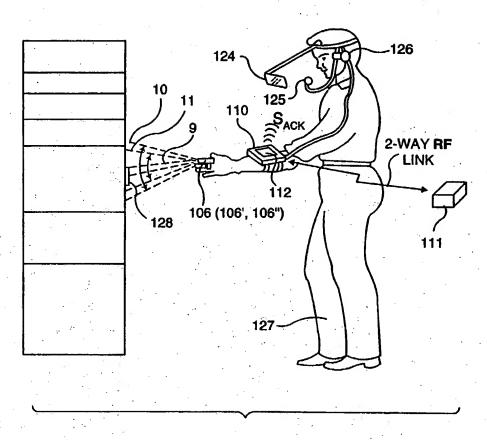
F I G. 5A



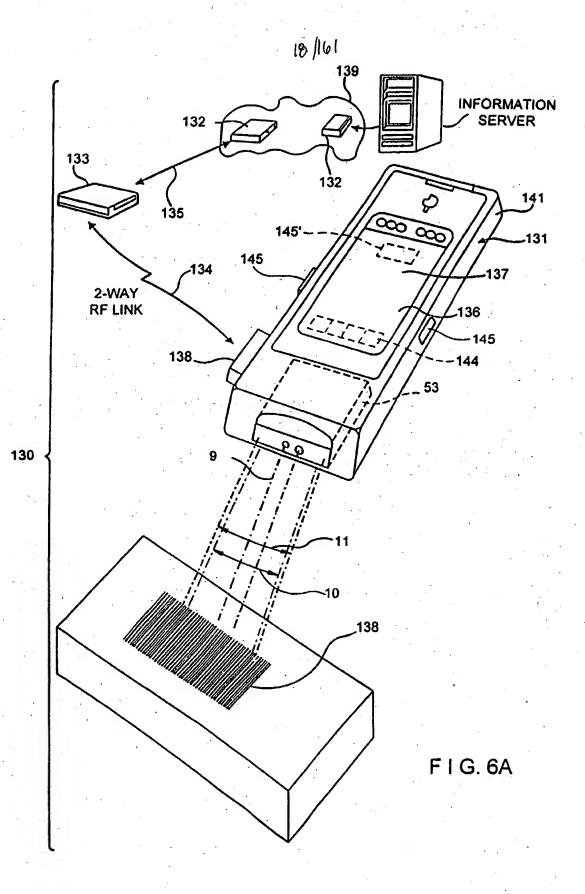
F I G. 5B

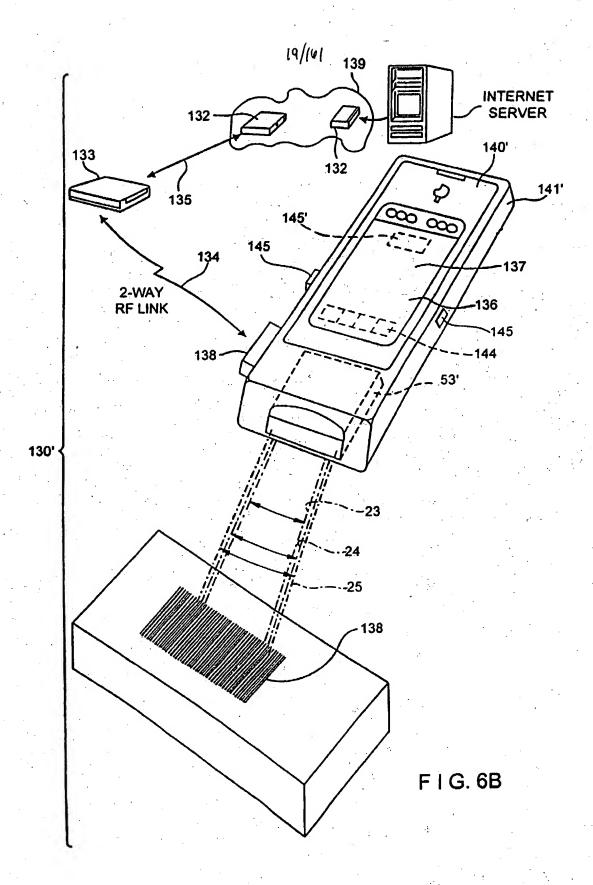


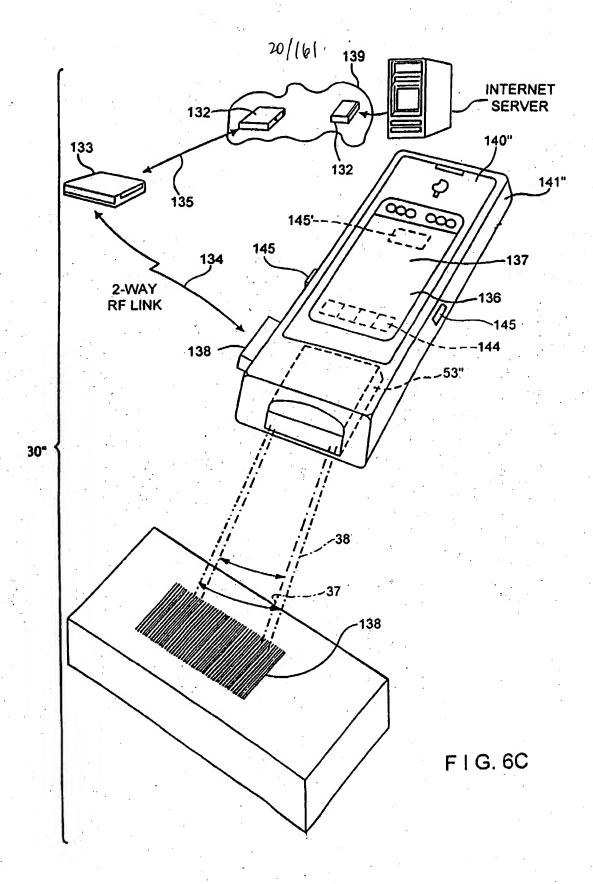
F I G. 5C



F I G. 5D







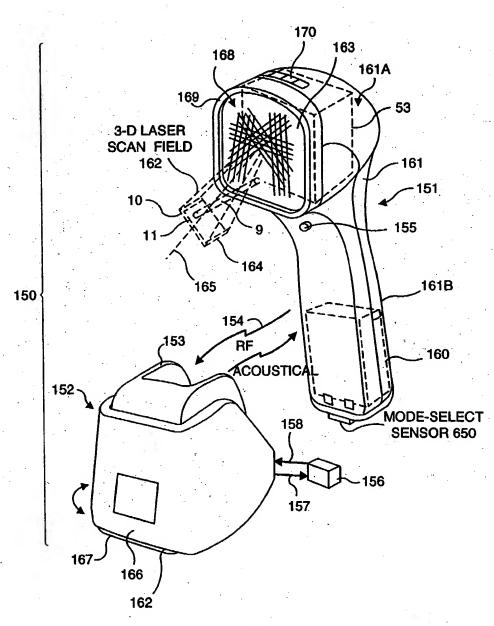
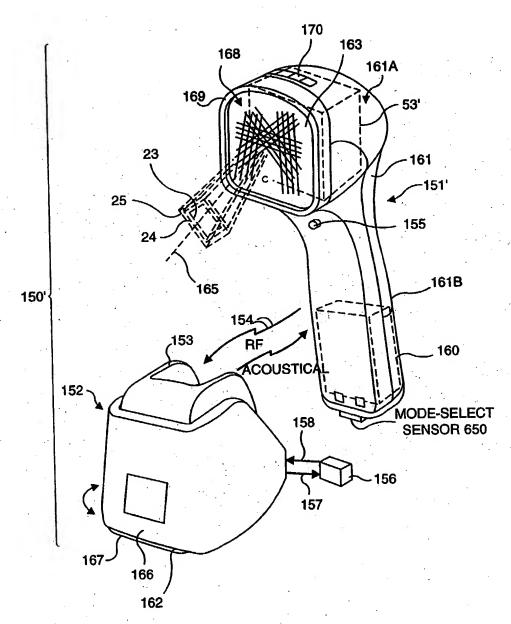
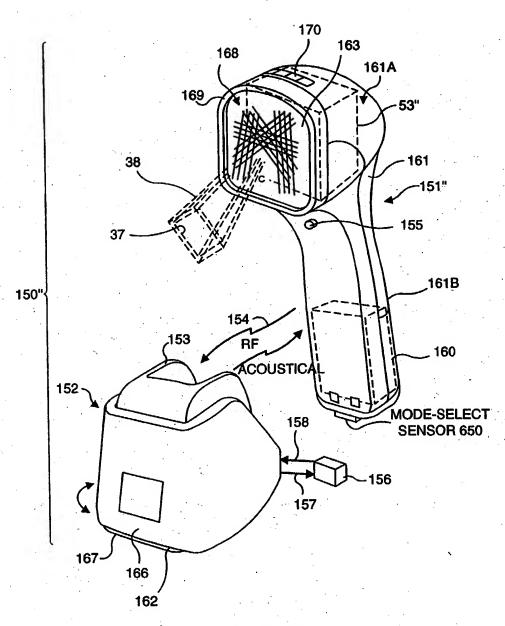


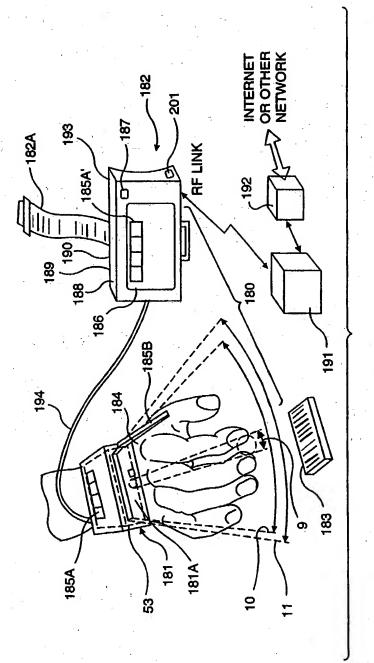
FIG. 7A



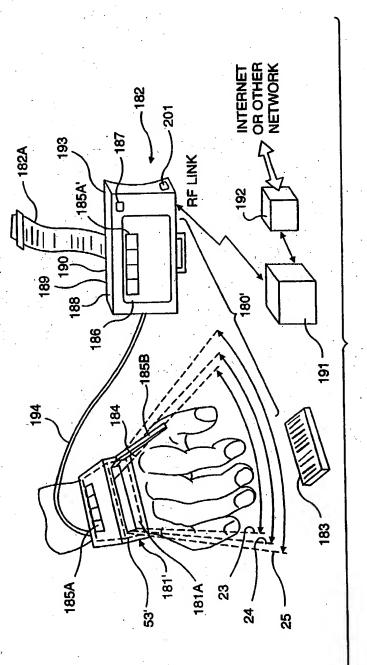
F I G. 7B



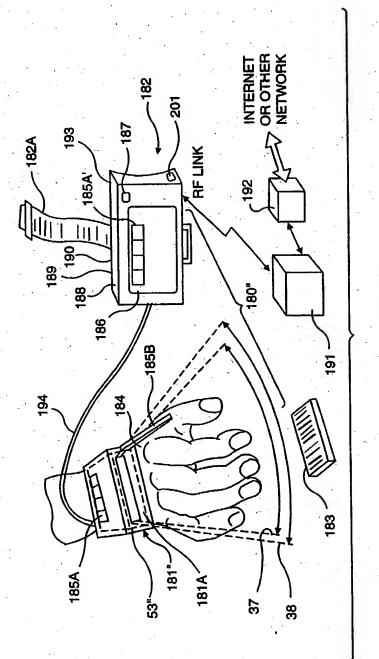
F1G.7C



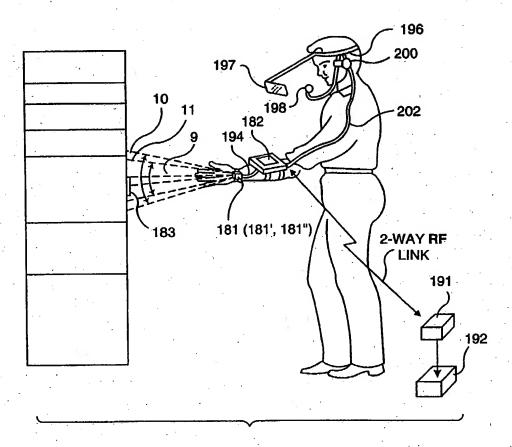
F I G. 8A



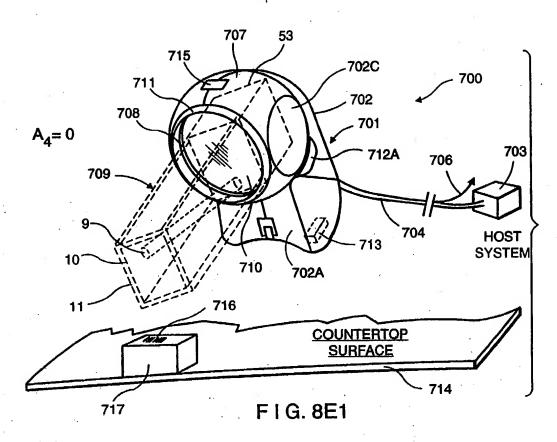
- G. 8B

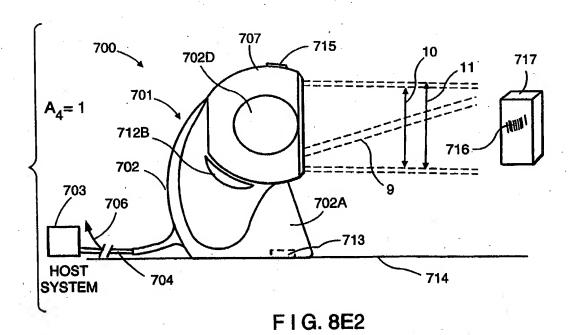


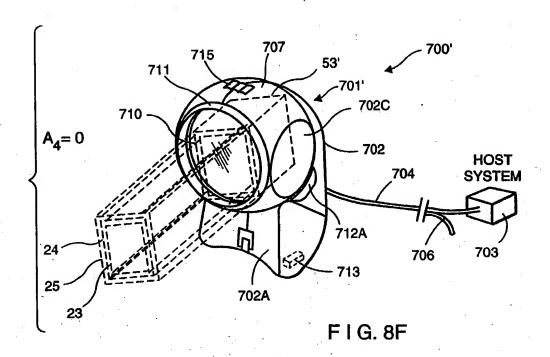
F1G.8C

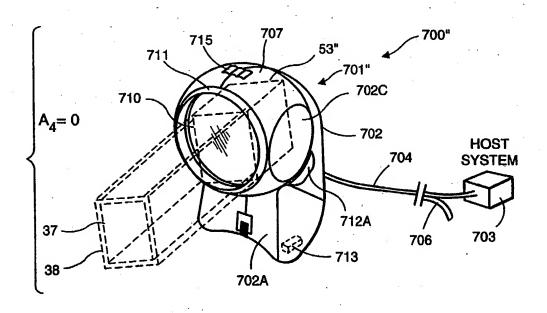


F I G. 8D

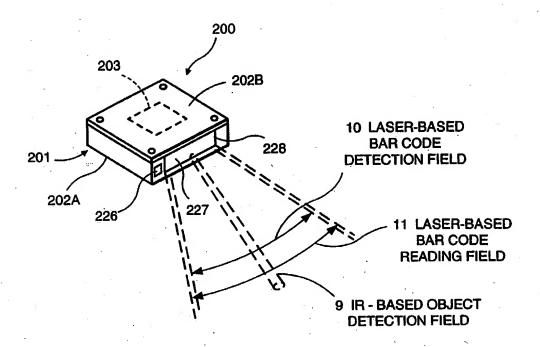




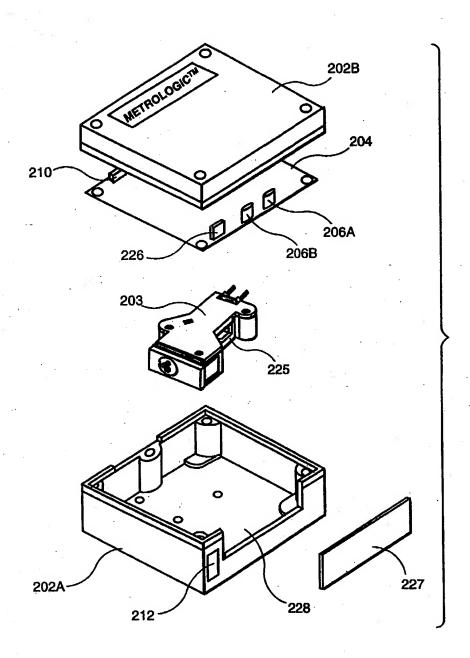




F I G. 8G



F I G. 9A



F I G. 9B

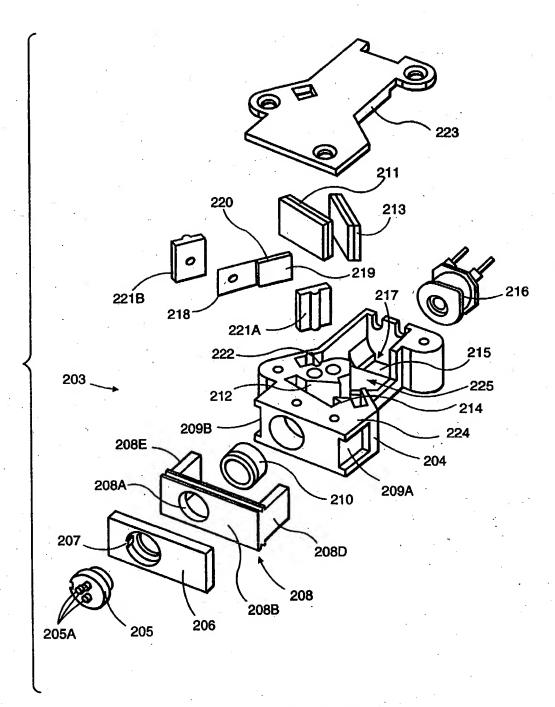
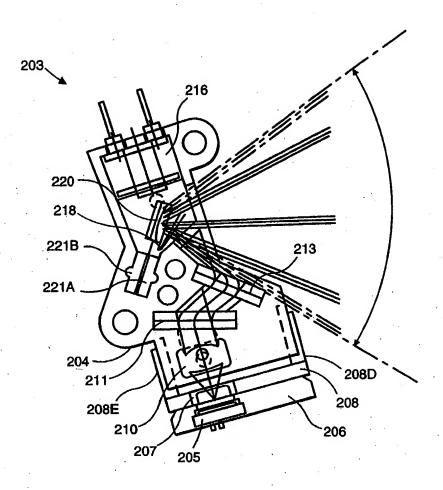
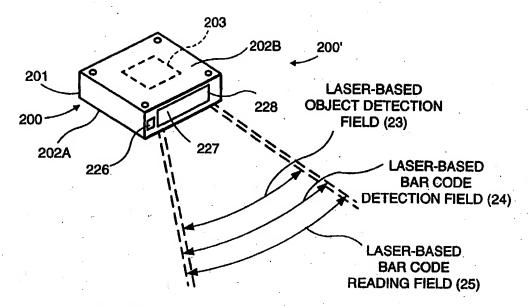


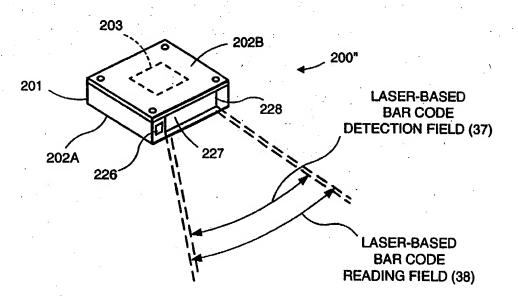
FIG. 9C



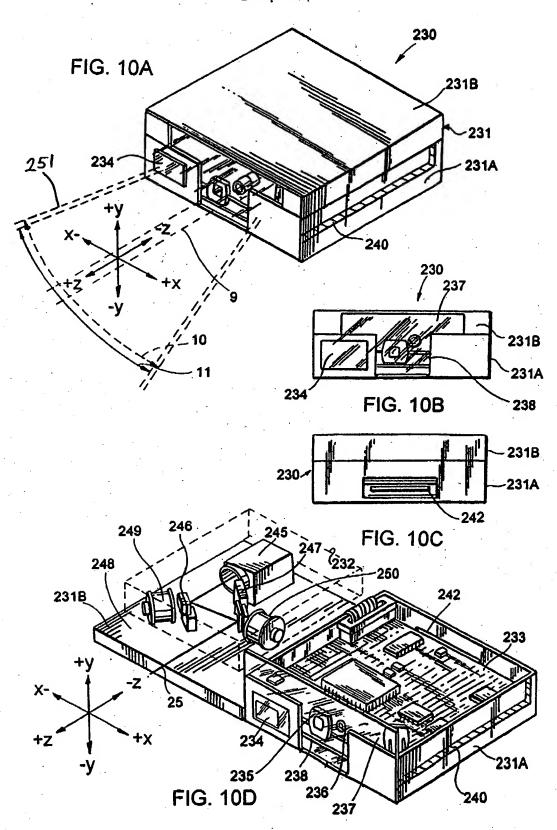
F I G. 9D

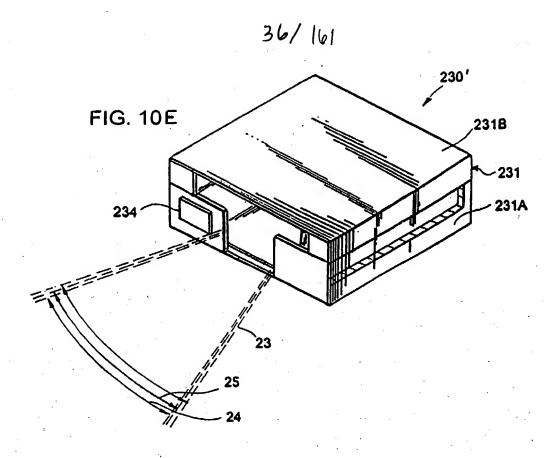


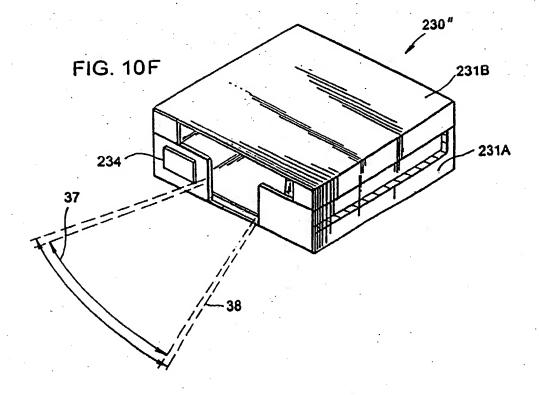
F I G. 9E

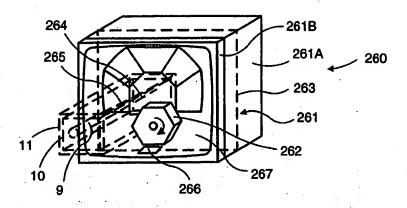


F I G. 9F

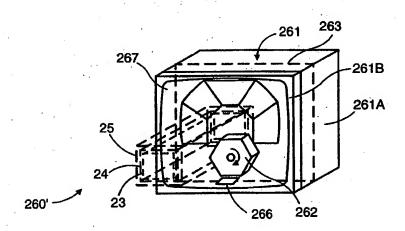




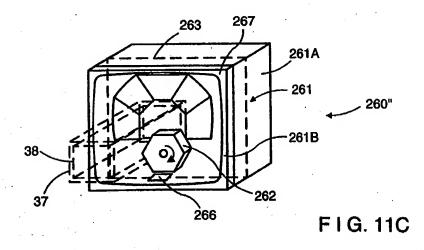


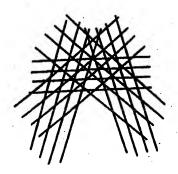


F I G. 11A

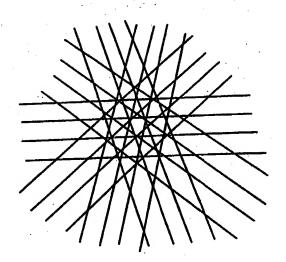


F I G. 11B



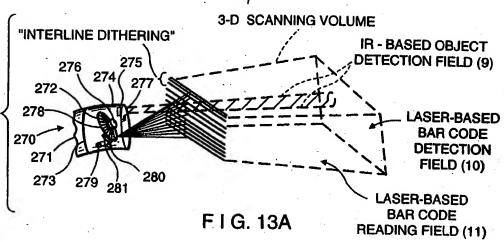


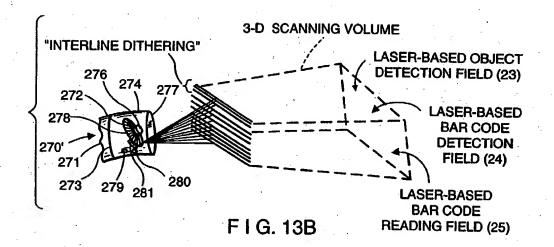
F I G. 12A

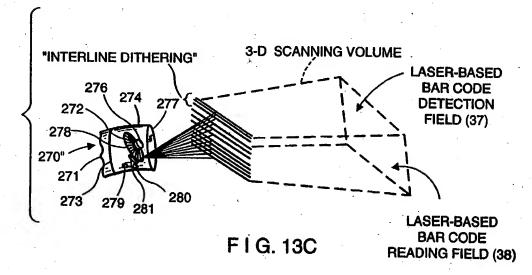


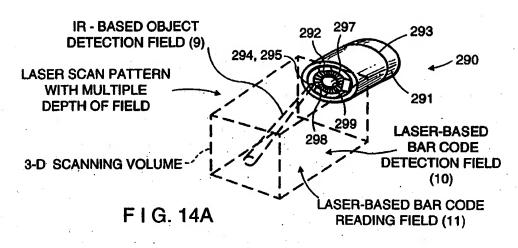
F I G. 12B

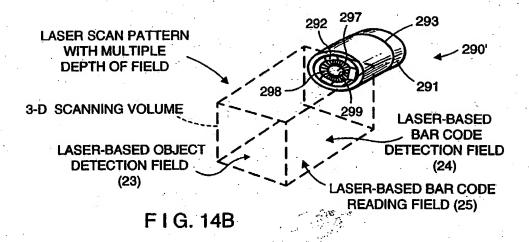


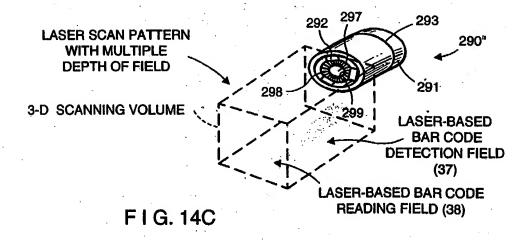


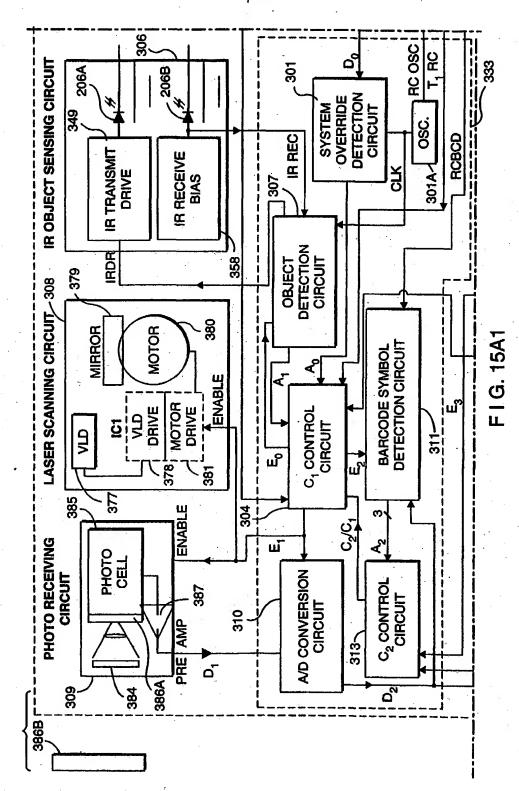


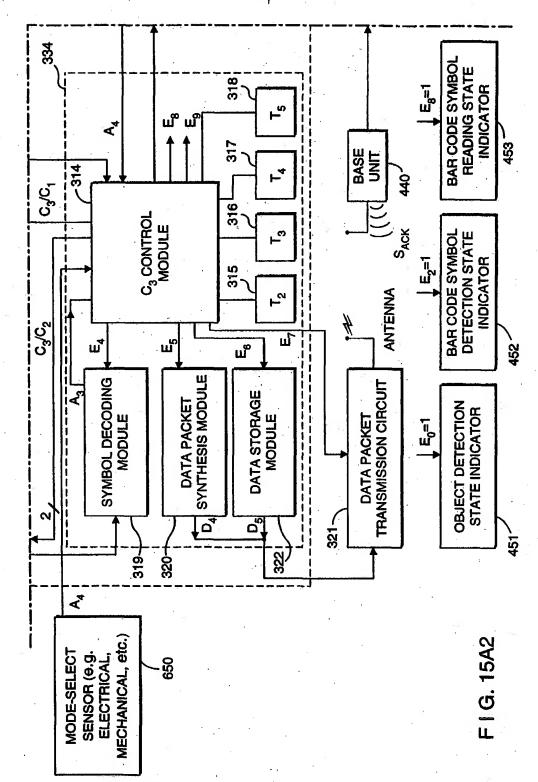


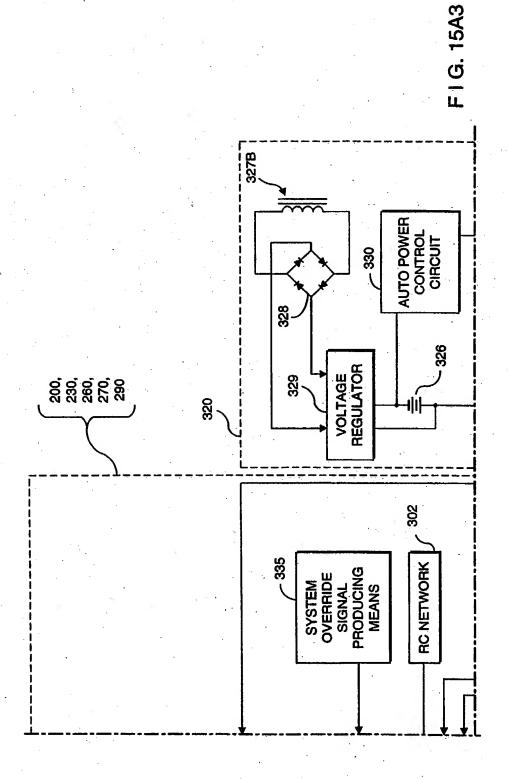


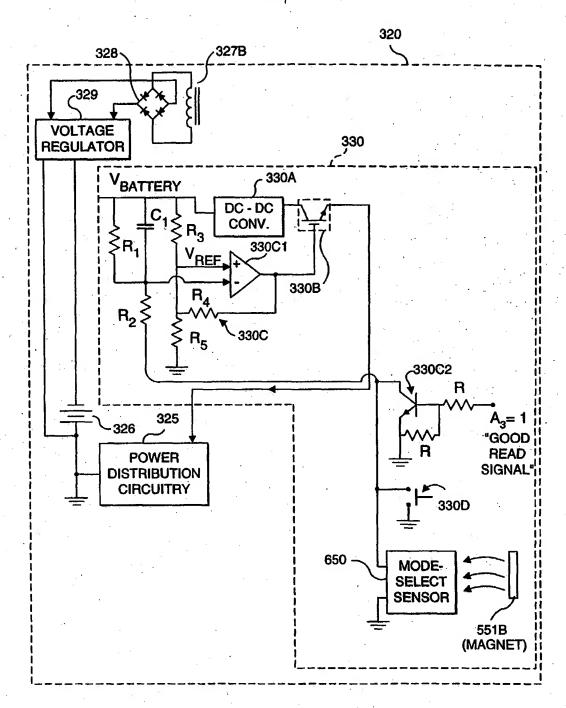




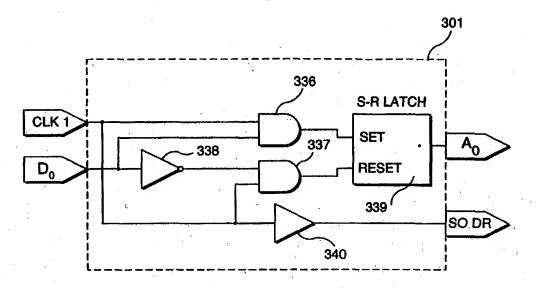




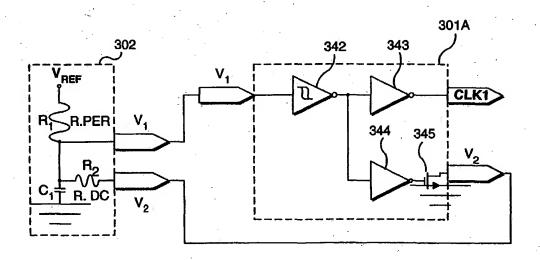




F I G. 15B1

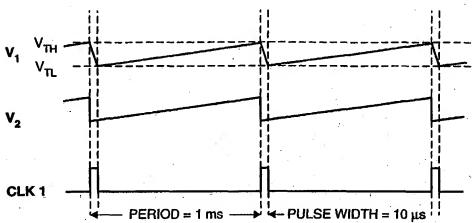


F I G. 15B2

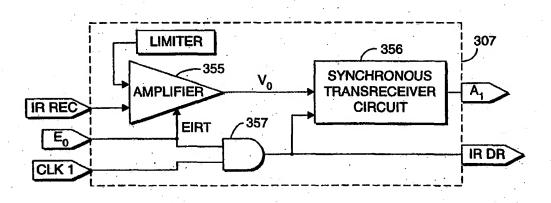


F I G. 15C

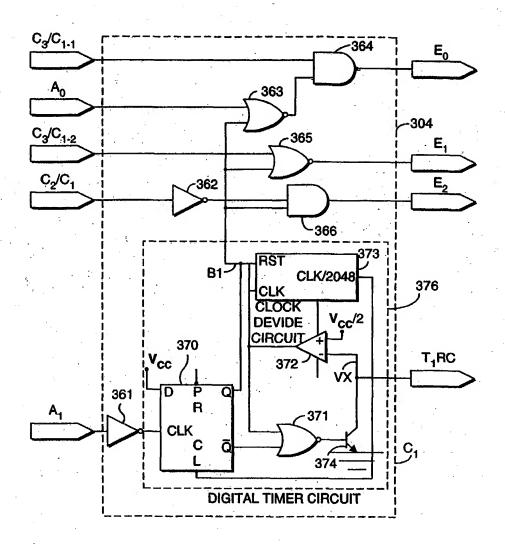




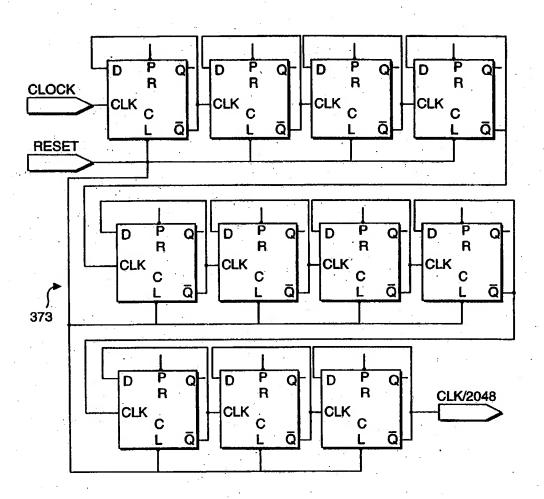
F I G. 15D



F I G. 15E



F I G. 15F



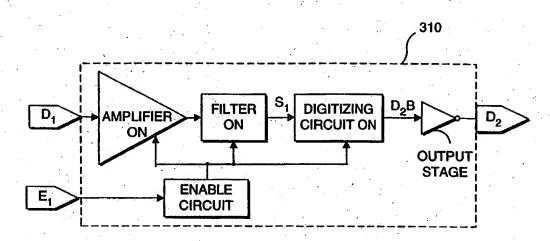
F I G. 15G

$$E_0 = \overline{(B1 + A_0)(C_3/C_{1-1})}$$

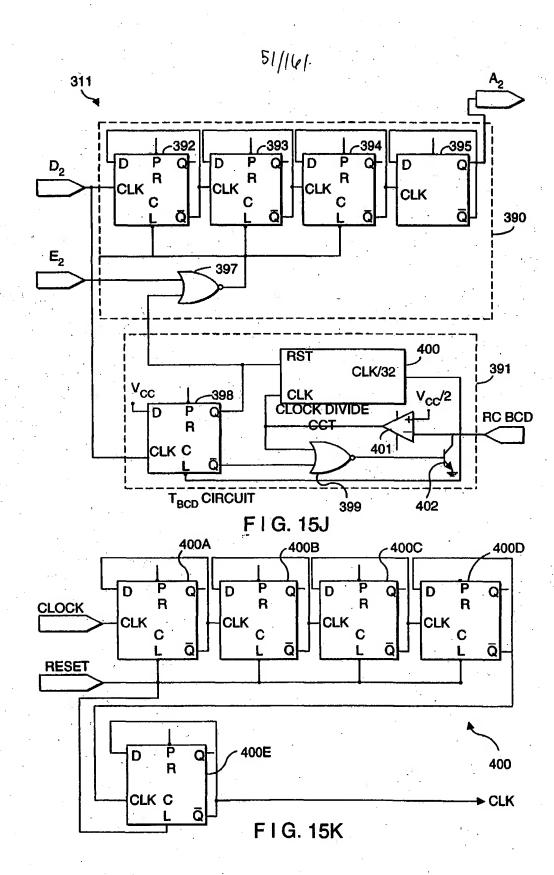
$$E_1 = (C_3/C_{1-2}) + B1$$

$$E_2 = (C_2/C_1)(T_1)$$

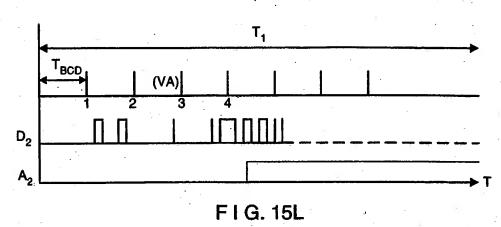
F I G. 15H

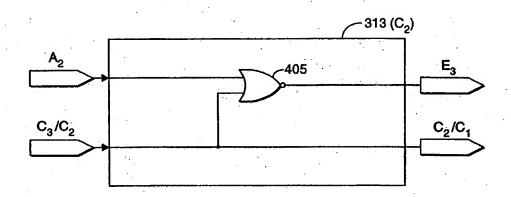


F I G. 151









F I G. 15M

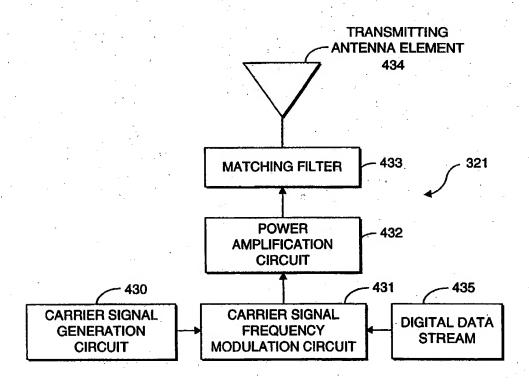
$C_3/C_2$	A <sub>2</sub>	E <sub>3</sub>	C <sub>2</sub> /C <sub>1</sub>
0	0	0	0
0	1	1	0
-1	X	1	1

X: DON'T CARE (I.E.  $C_3 / C_2$  OVERRIDES  $A_2$ )

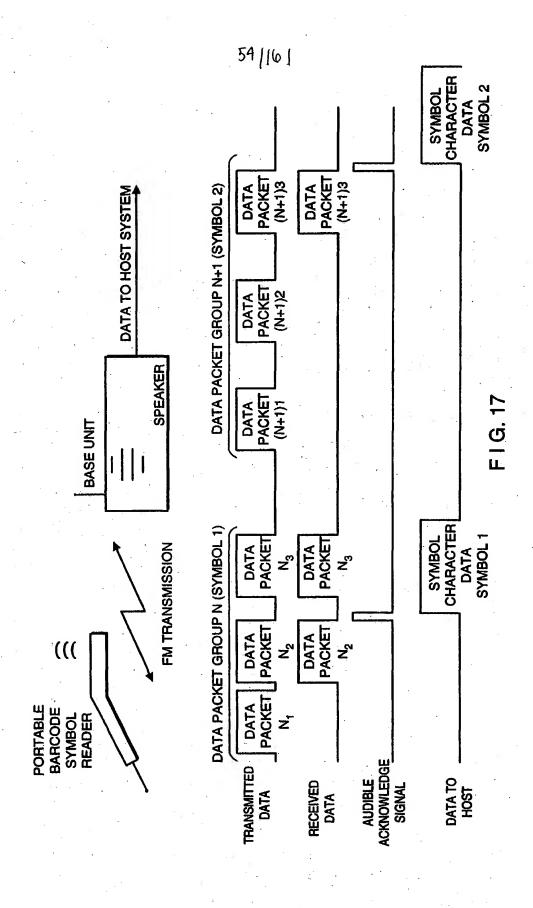
F I G. 15N

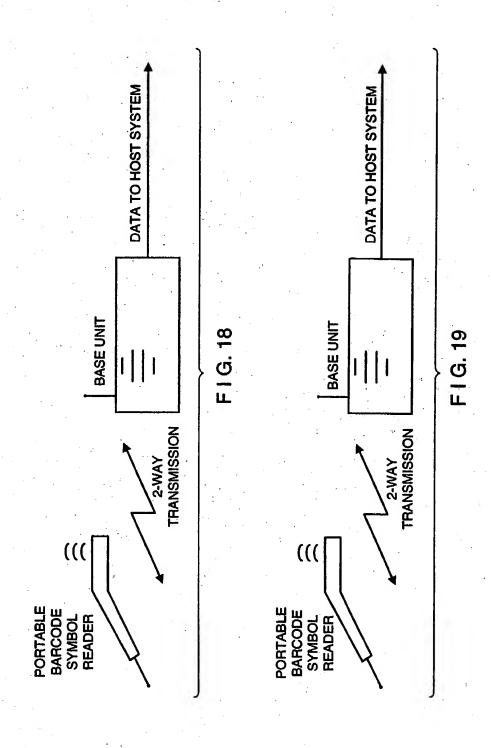
<b>3</b>	20 _32	1 _322	323	_324	325	_326
START OF PACKET FIELD	TRANSMI TTER ID NUMBER FIELD	PACKET GROUP NUMBER FIELD	DATA PACKET NUMBER FIELD	SYMBOL CHARAC TER DATA FIELD	ERROR CODE CORREC TION FIELD	END OF PACKET FIELD

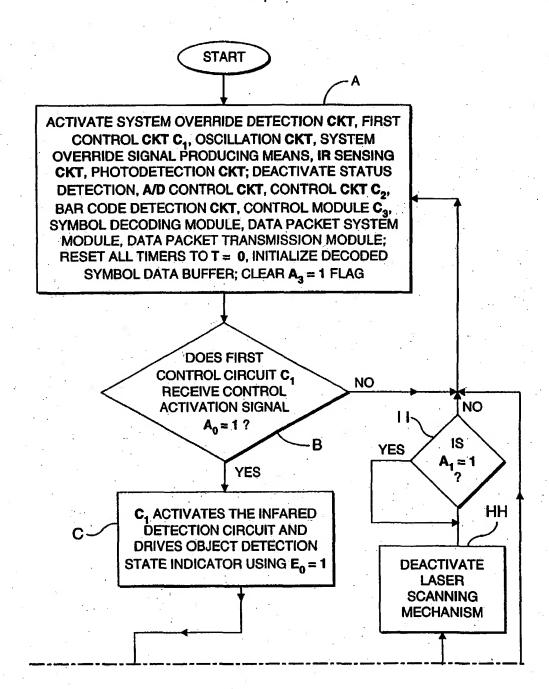
FIG. 150



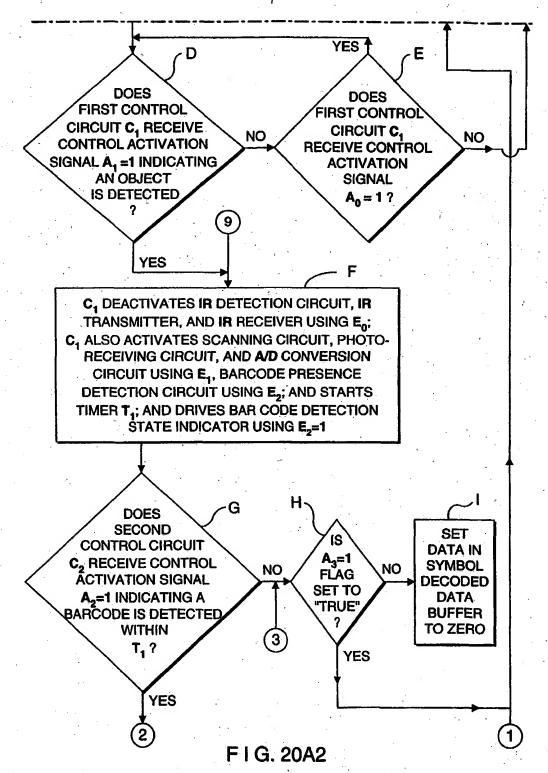
F I G. 16

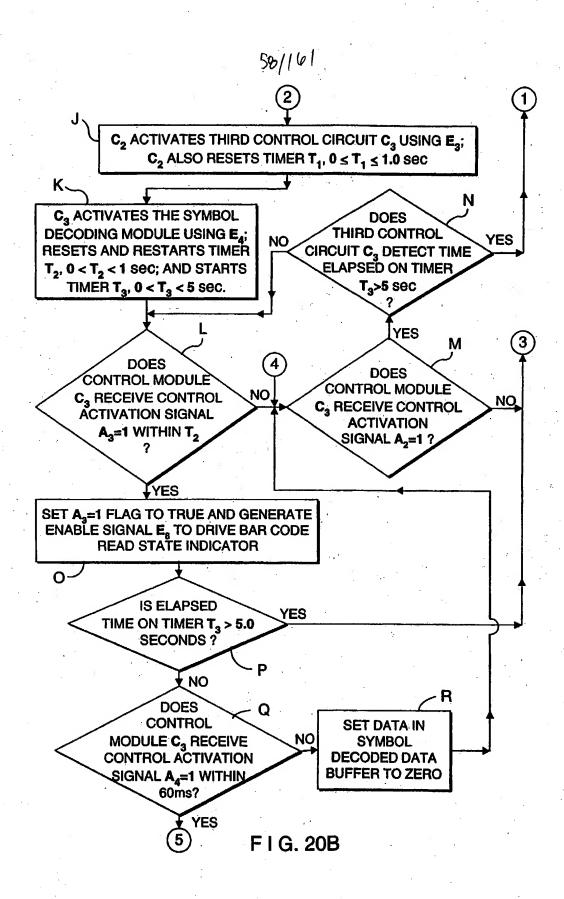


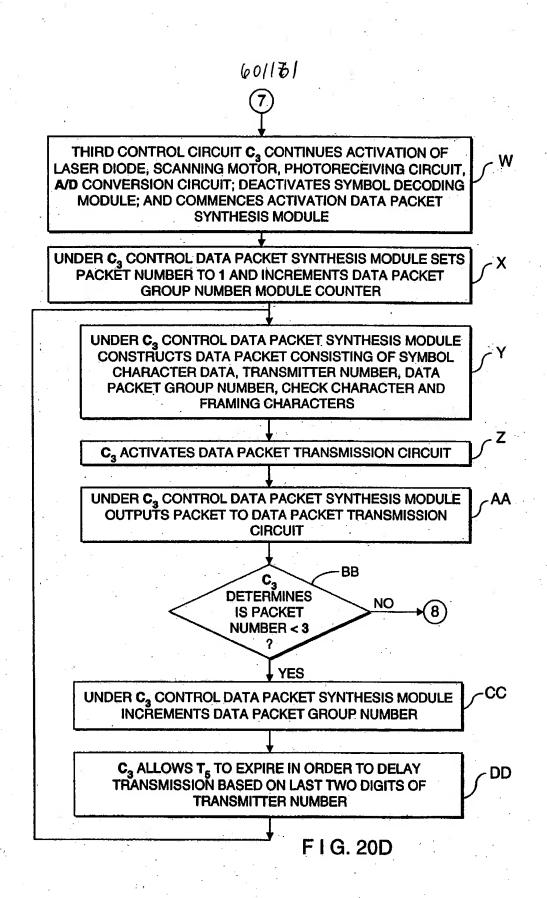


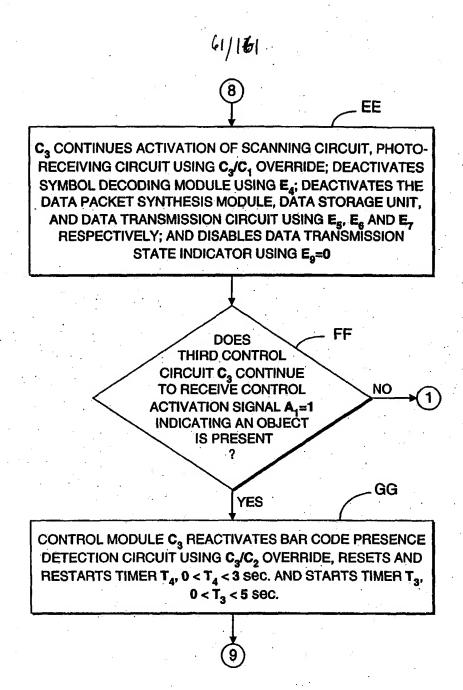


F I G. 20A1

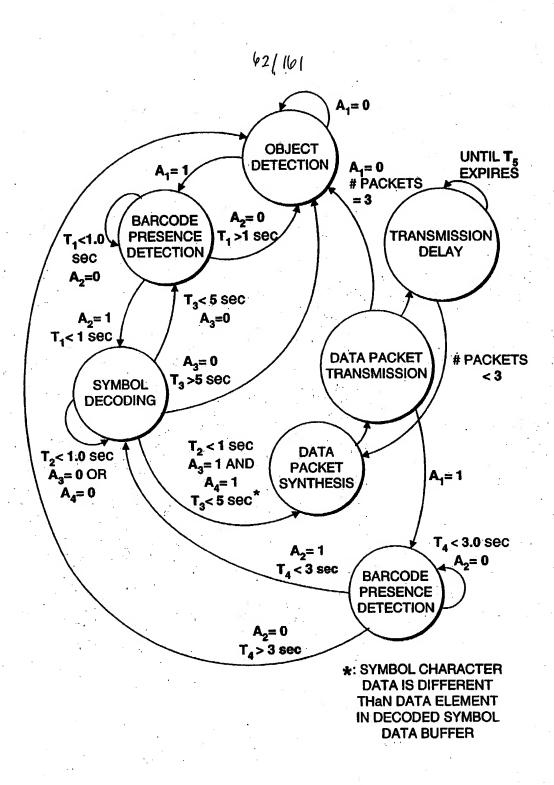




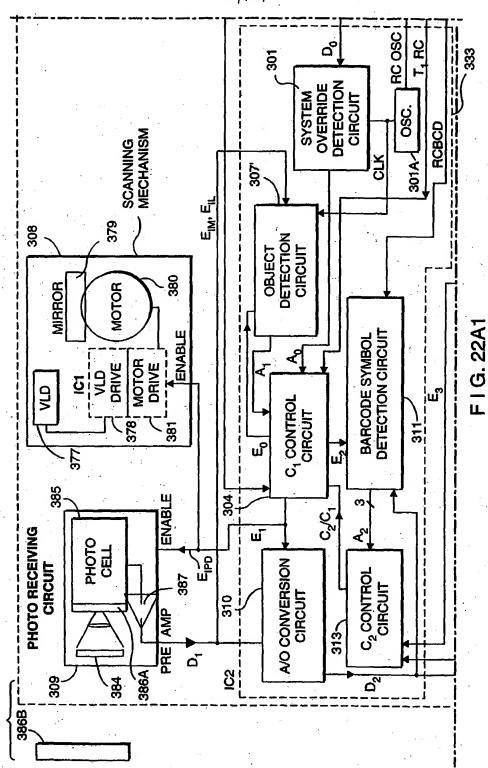


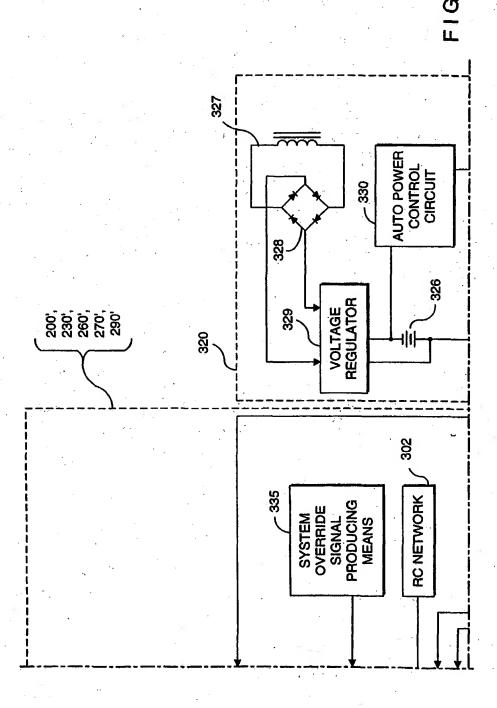


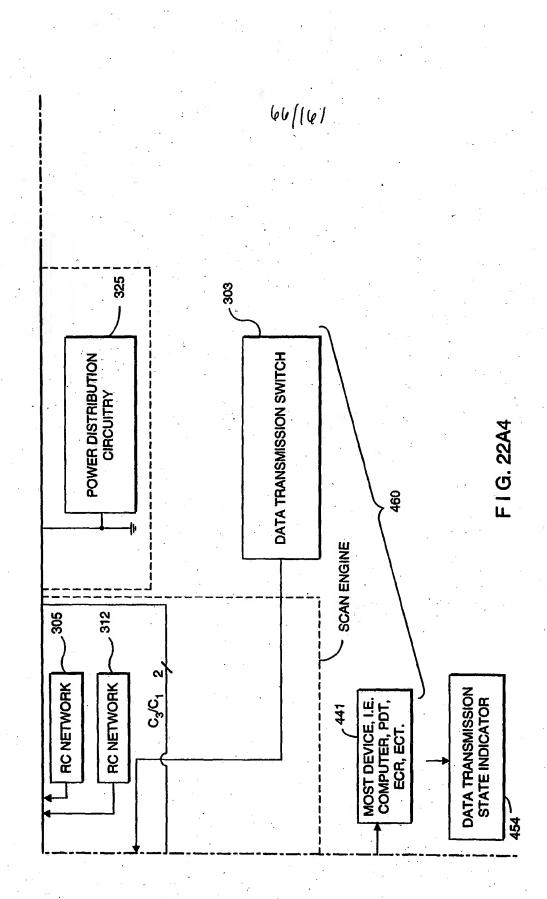
F I G. 20E

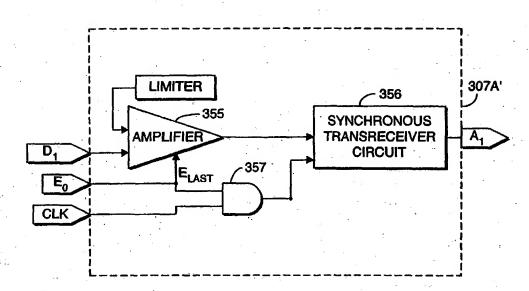


F I G. 21

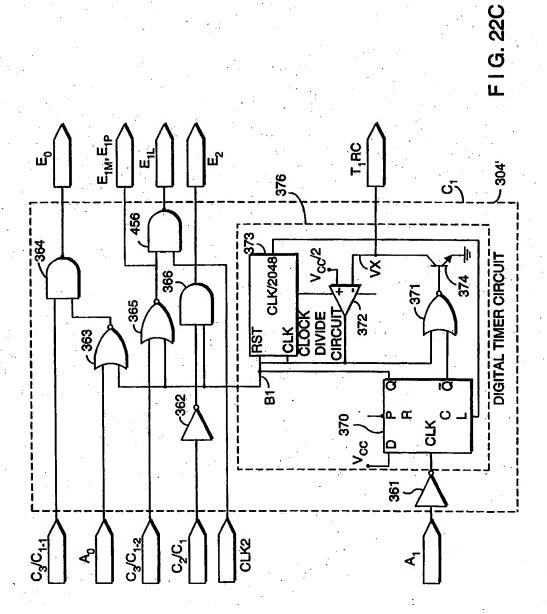








F I G. 22B



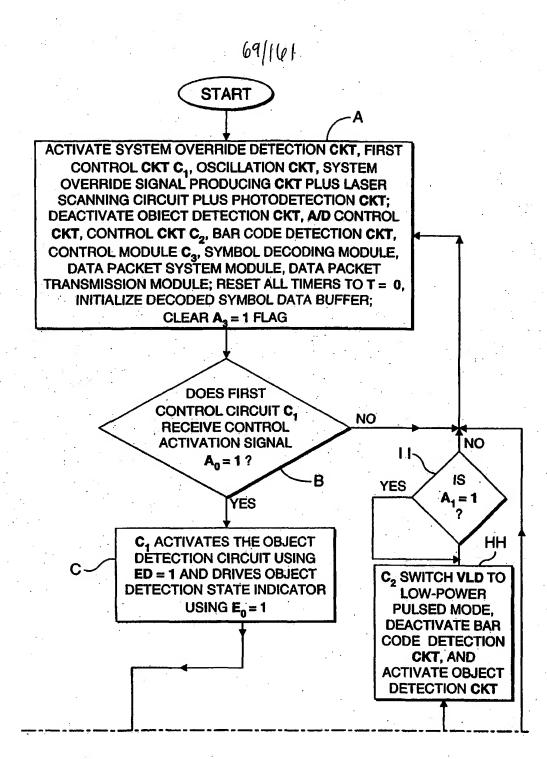
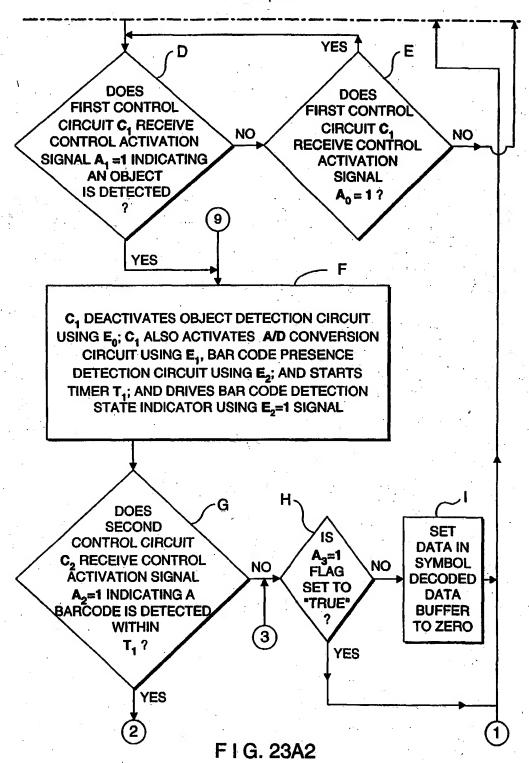
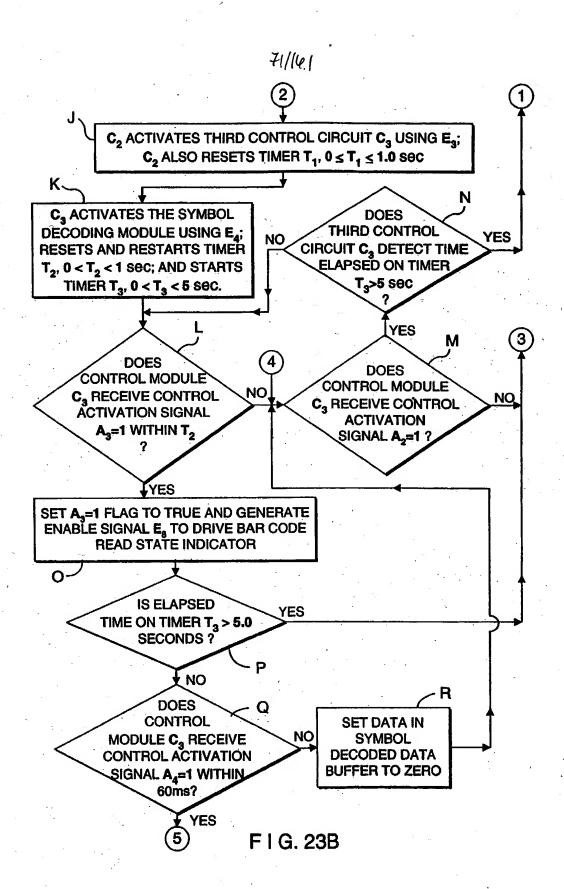
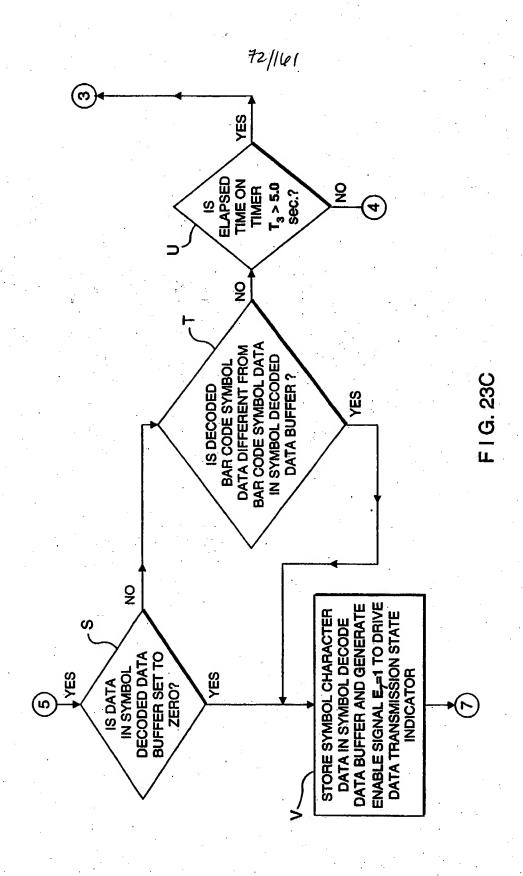
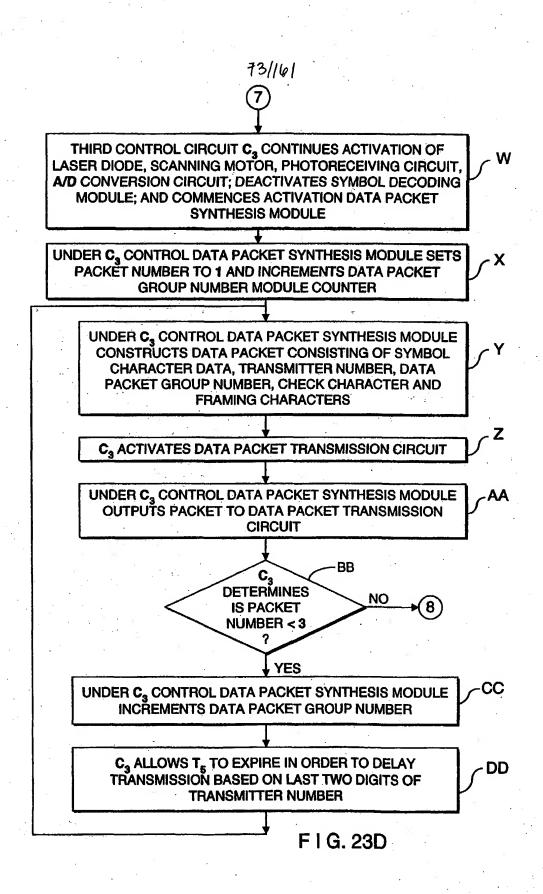


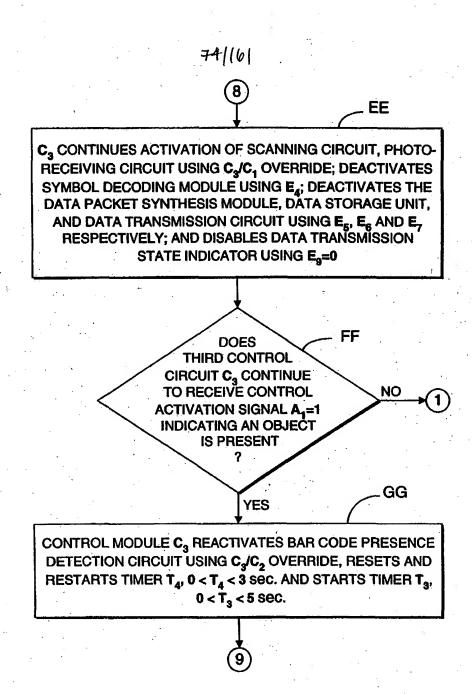
FIG. 23A1











F I G. 23E

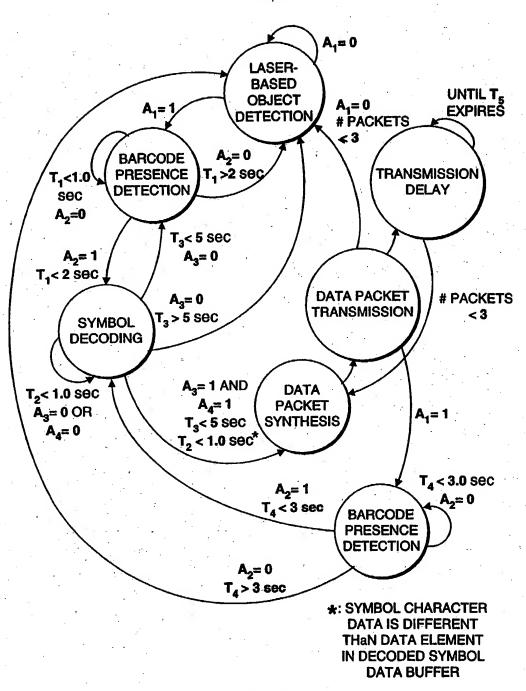
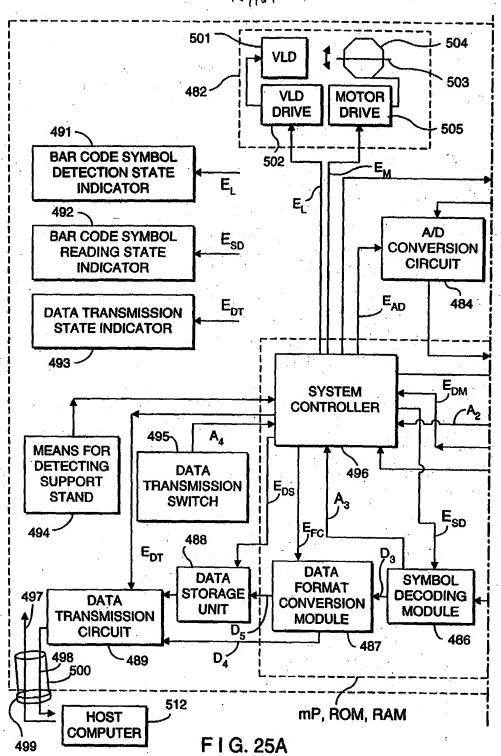
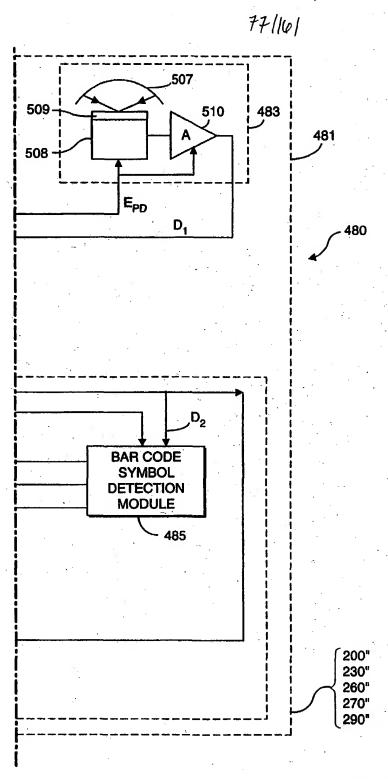
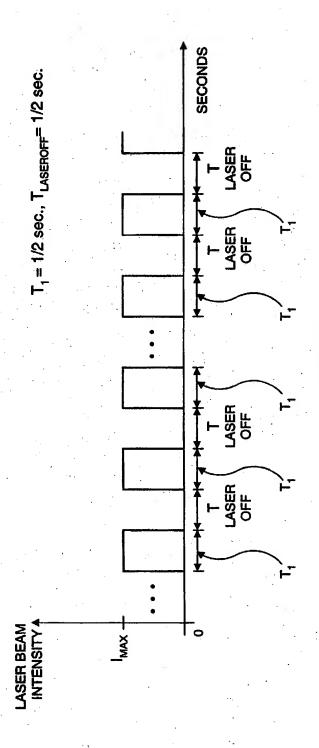


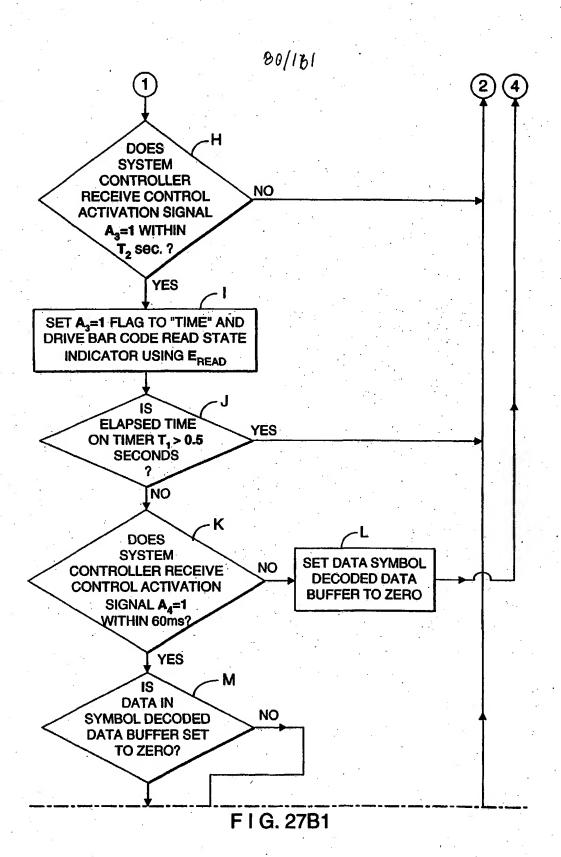
FIG. 24





F I G. 25B





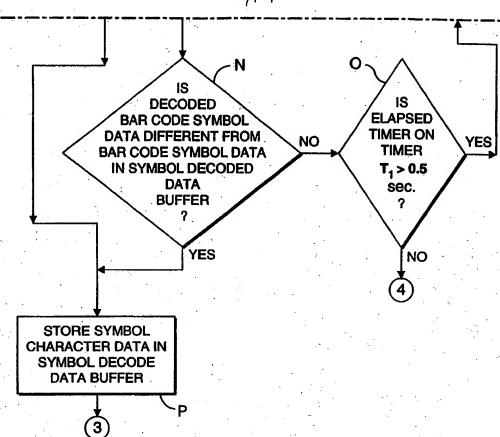


FIG. 27B2

3

SYSTEM CONTROLLER CONTINUES ACTIVATION OF LASER DIODE, SCANNING MOTOR, PHOTORECEIVING CIRCUIT, A/D CONVERSION CIRCUIT; DEACTIVATES SYMBOL DECODING MODULE; AND COMMENCES ACTIVATION OF DATA FORMAT CONVERSION MODULE AND DATA TRANSMISSION MODULE (AND/OR DATA STORAGE MODULE); DRIVE DATA TRANSMISSION STATE INDICATOR WITH E<sub>DT</sub>=1

TRANSMIT SYMBOL CHARACTER DATA TO HOST DEVICE (E.G. COMPUTER, CASH REGISTER, ETC.) OR OTHER STORAGE (PROCESSING DEVICE); DRIVE DATA TRANSMISSION STATE INDICATOR USING  $\mathbf{E_{DT}}$ =1, AND DISABLE BAR CODE READ INDICATOR USING  $\mathbf{E_{SD}}$ =0

R

SYSTEM CONTROLLER DEACTIVATES DATA FORMAT CONVERSION MODULE, DATA TRANSMISSION MODULE (AND DATA STORAGE MODULE)

5

4

FIG. 27C

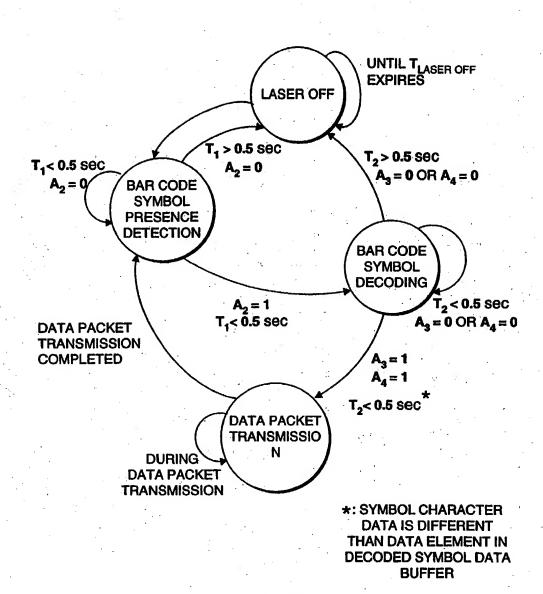
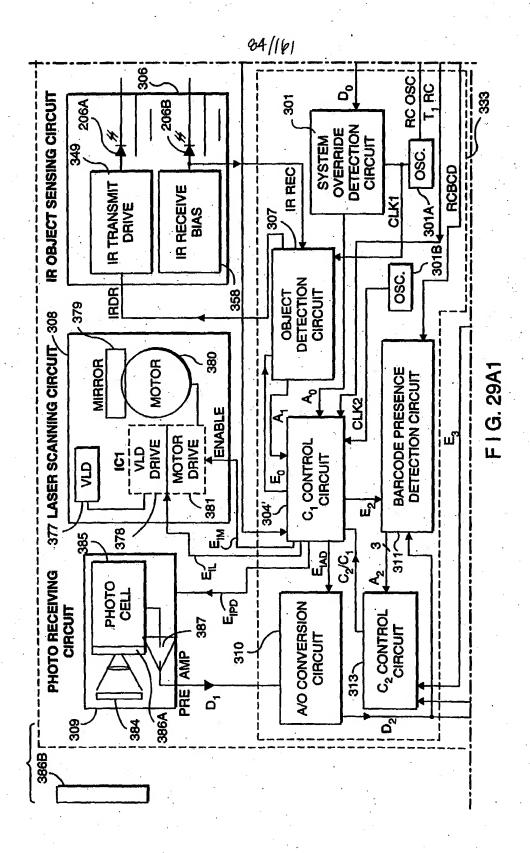
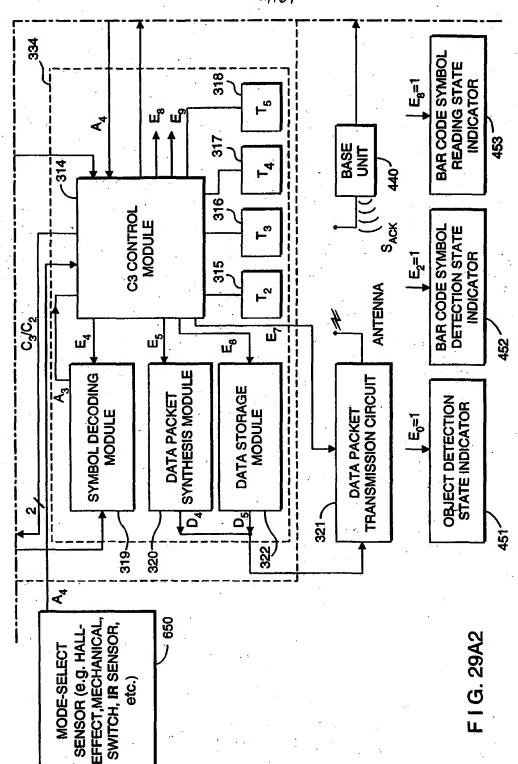
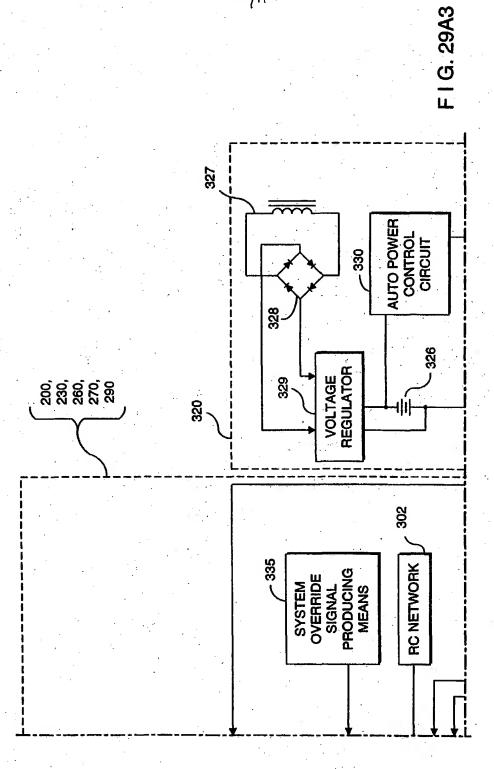
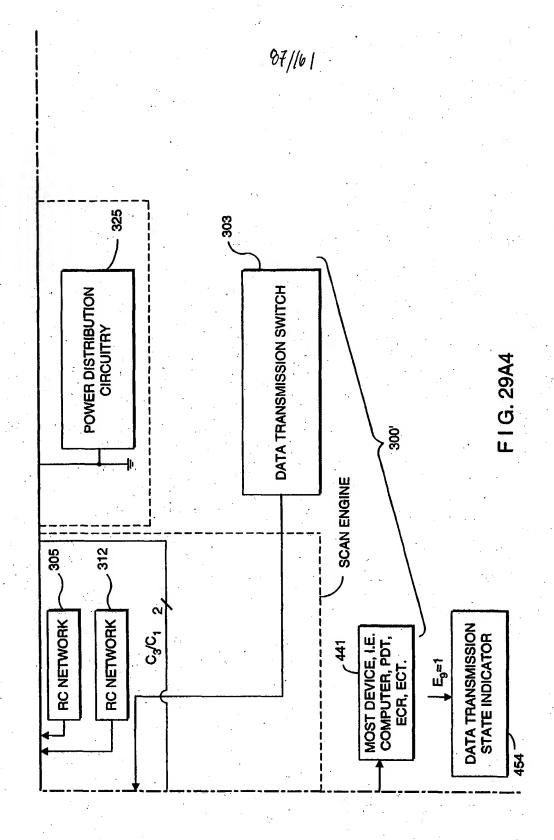


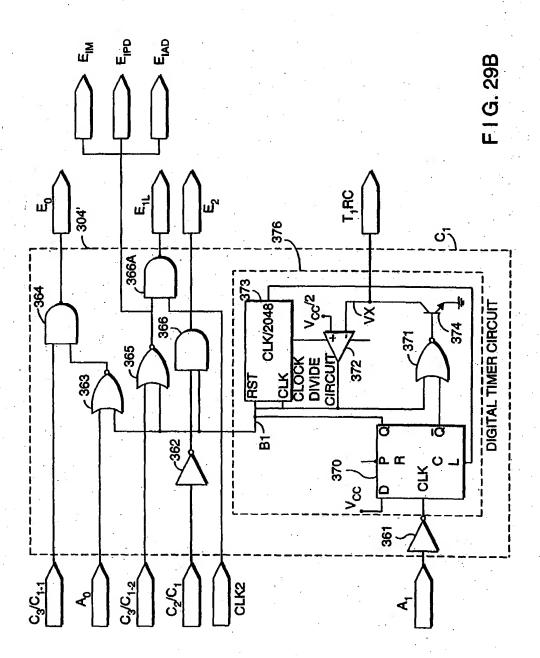
FIG. 28

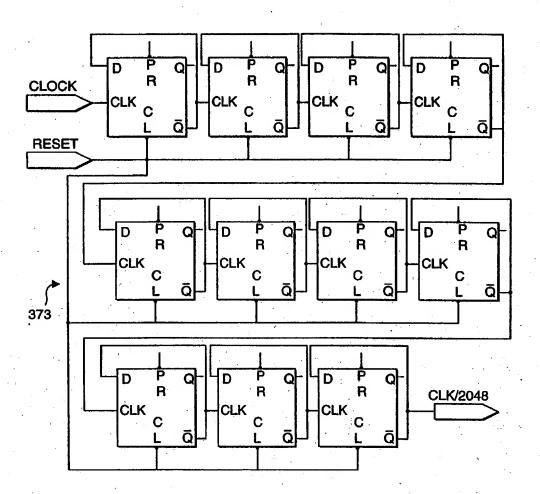












F I G. 29C

$$\begin{cases}
E_0 = \overline{(B1 + A_0)(C_3/C_{1-1})} \\
E_{IM} = E_{IPD} = E_{IAD} = \overline{(C_3/C_{1-2}) + B1} \\
E_L = \overline{(C_3/C_{1-1}) + B1} [B2]
\end{cases}$$

$$E_2 = \overline{(C_2/C_1)(B1)}$$

F I G. 29D

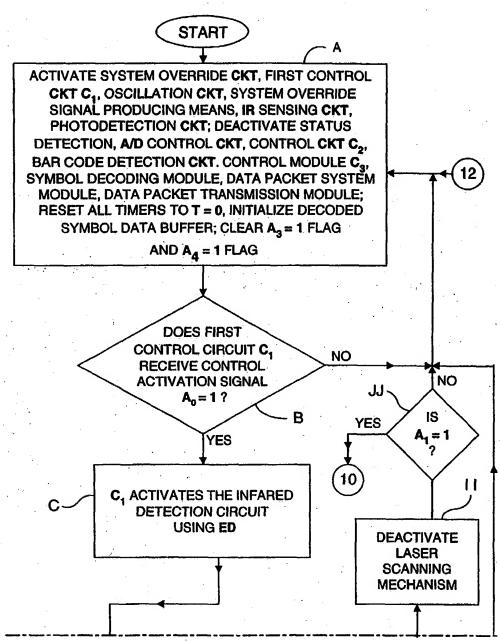
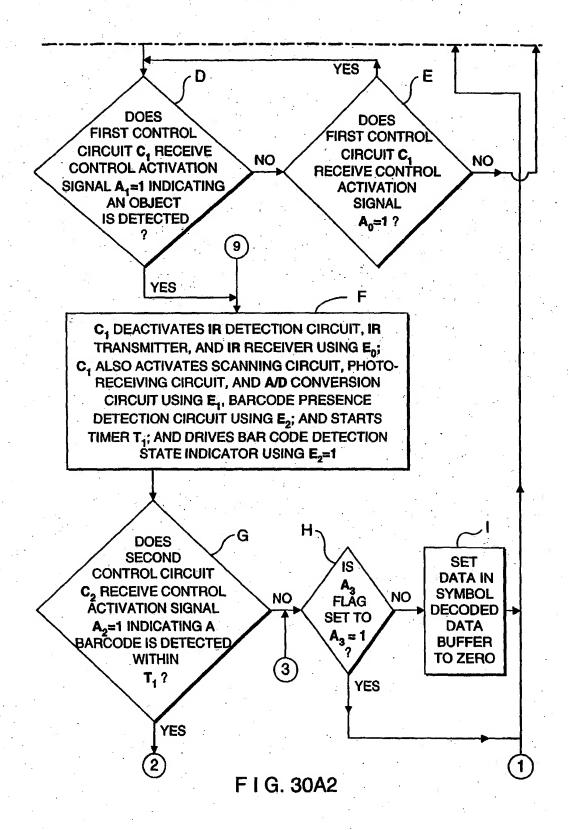
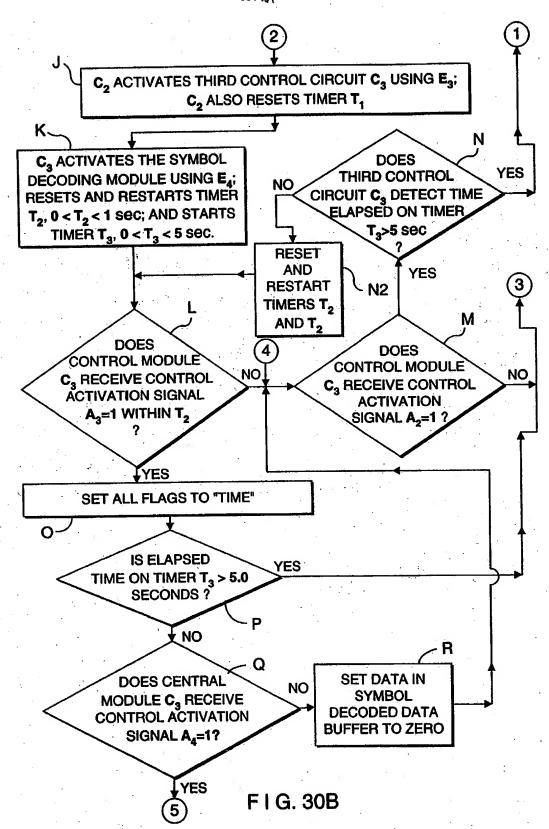
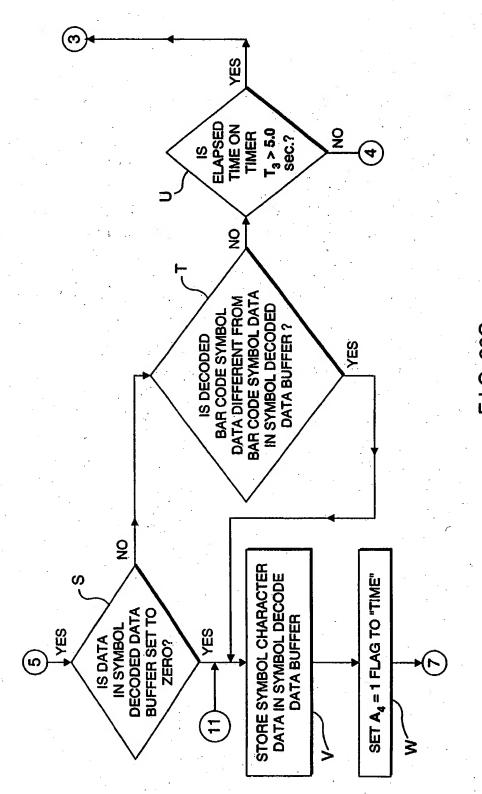


FIG. 30A1







- LG. 30C

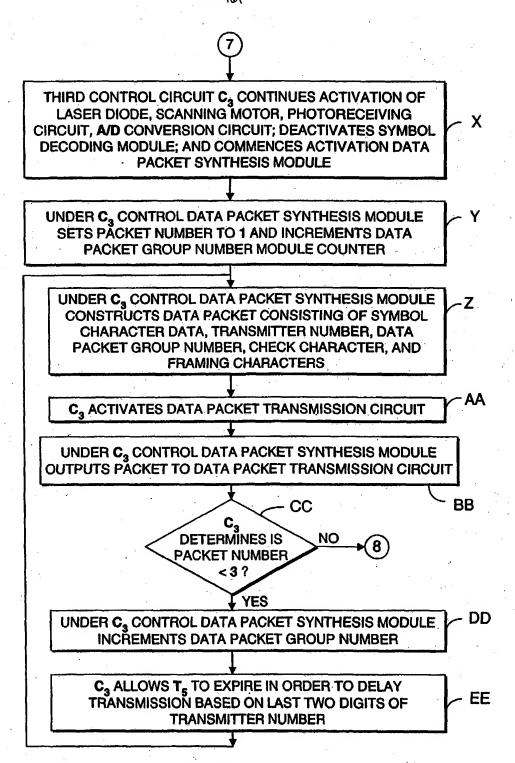


FIG. 30D

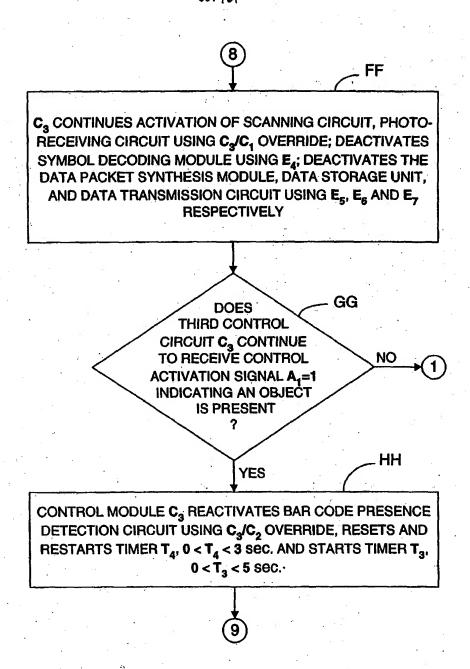
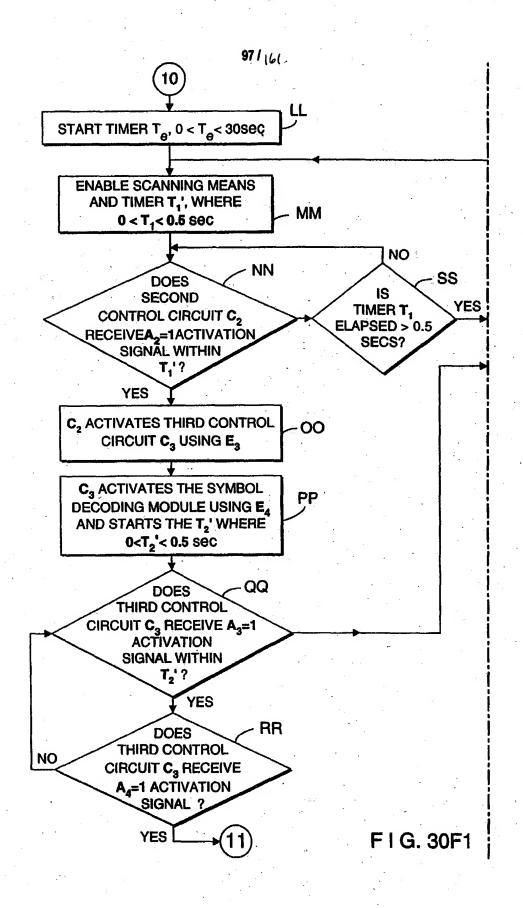
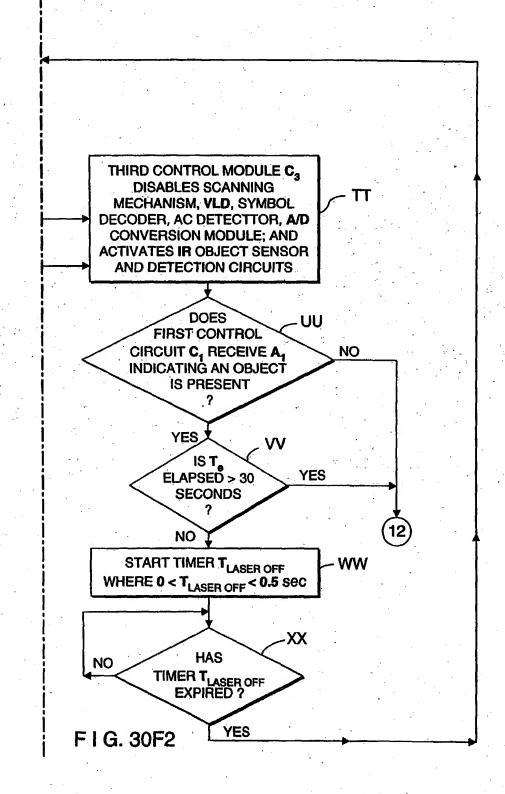
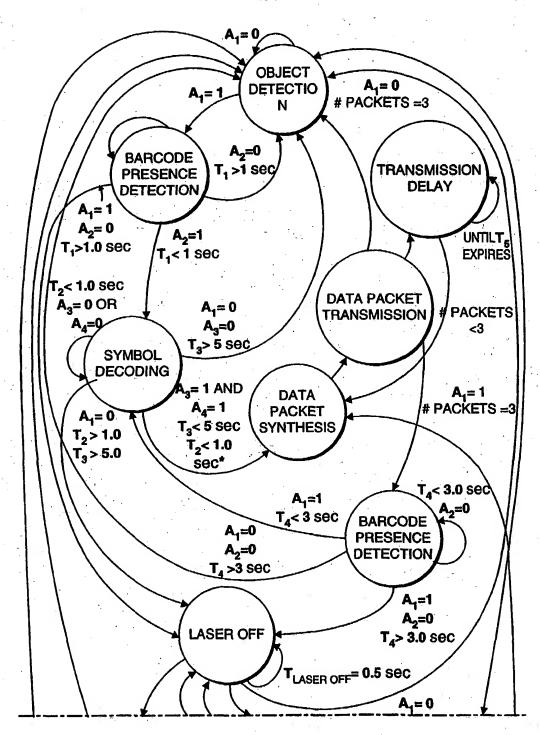


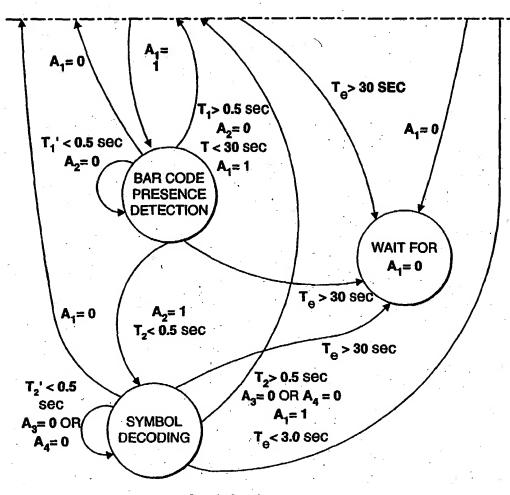
FIG. 30E







F I G. 31A



A<sub>3</sub>= 1, A<sub>4</sub>= 1 T<sub>2</sub>' < 0.5 SEC

\*: SYMBOL CHARACTER DATA IS DIFFERENT THAN DATA ELEMENT IN DECODED SYMBOL DATA BUFFER

FIG. 31B

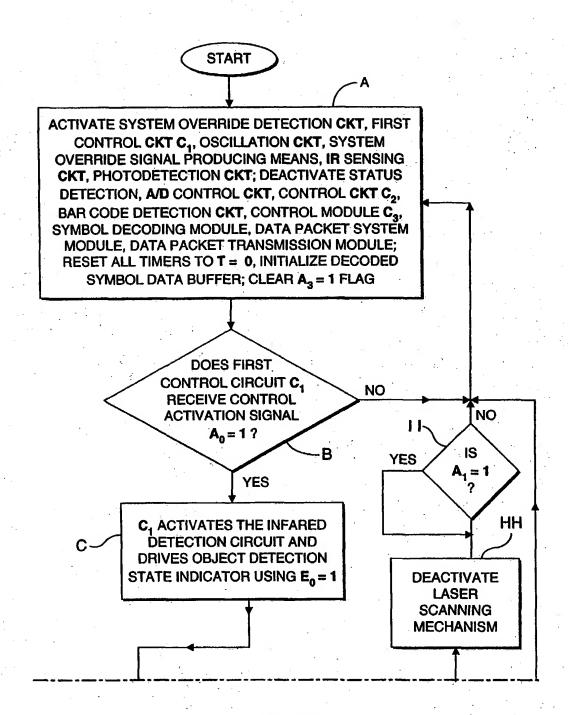
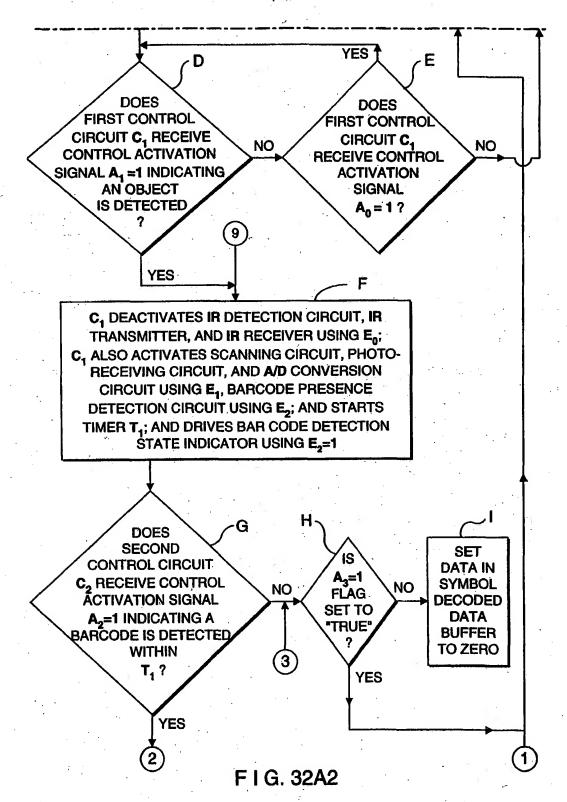
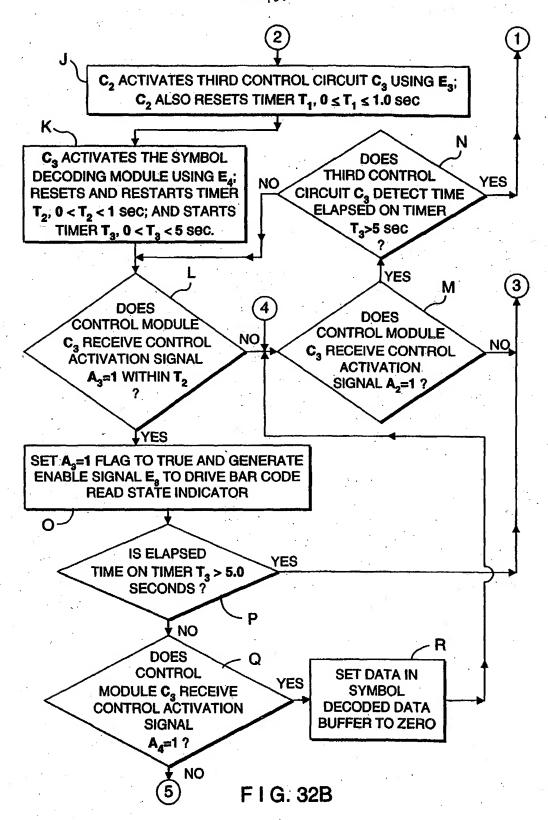
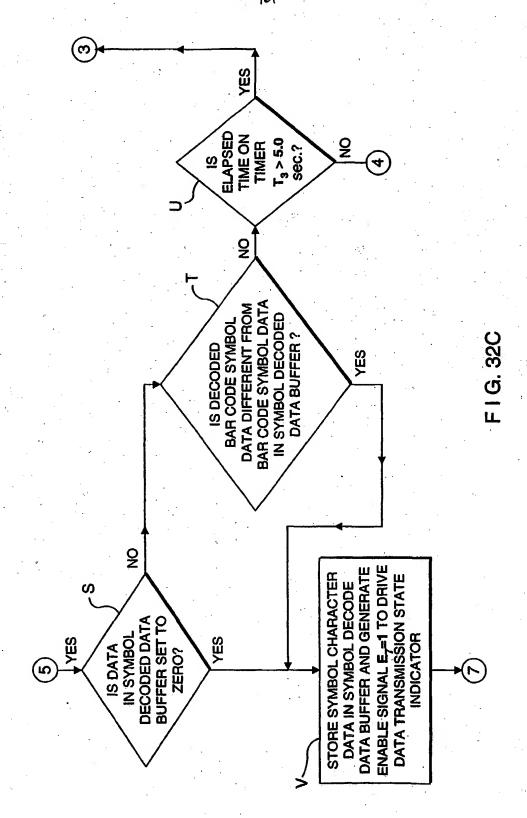
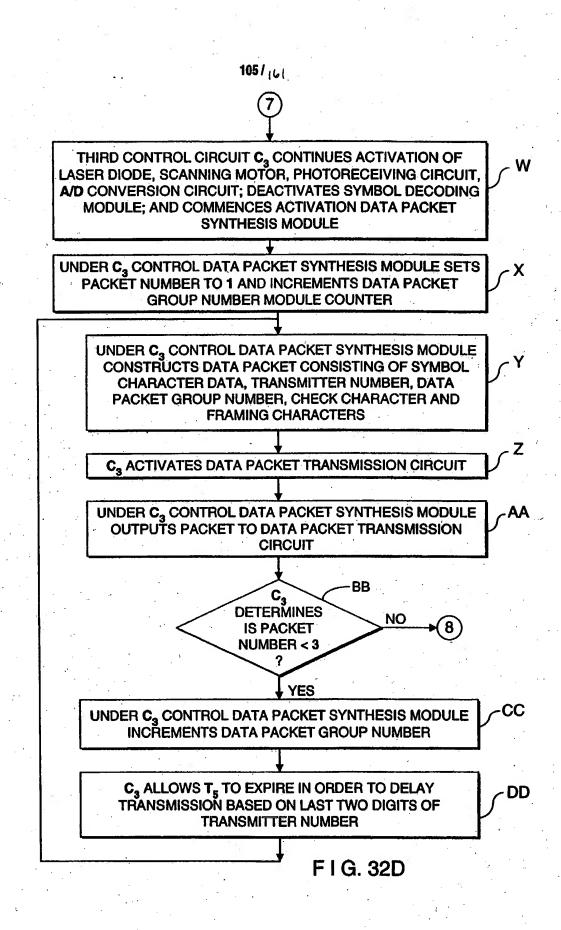


FIG. 32A1









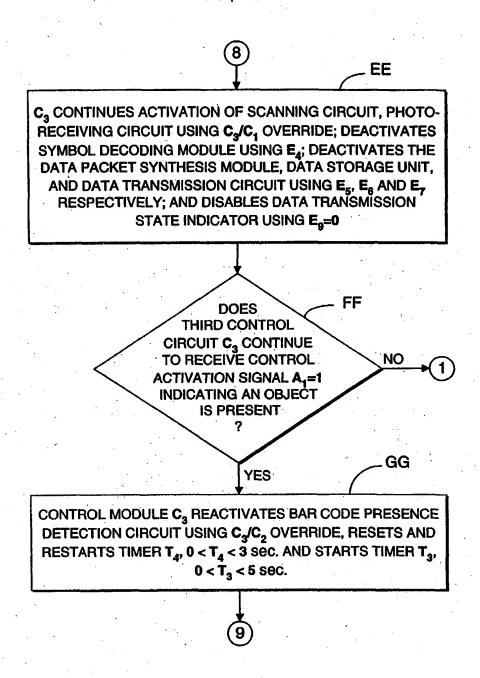


FIG. 32E

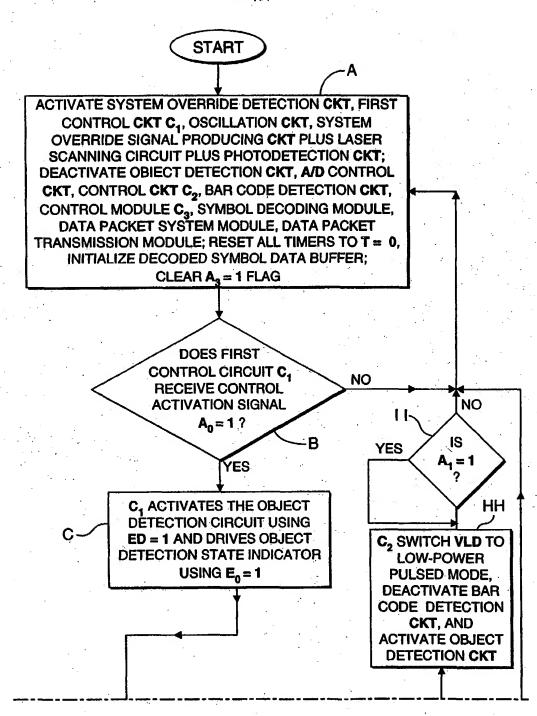
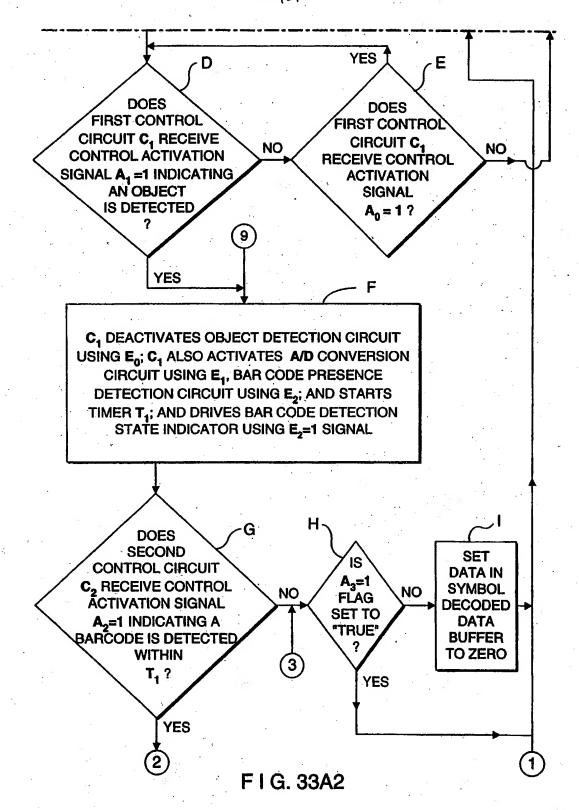
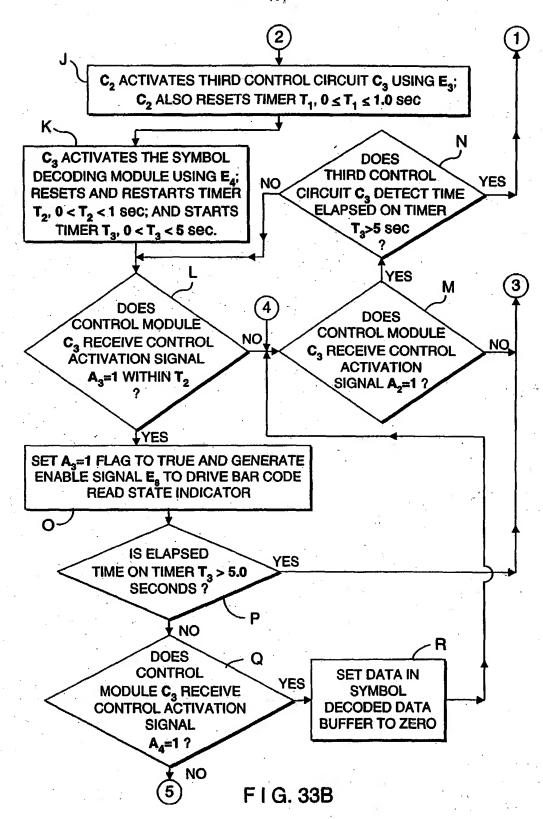
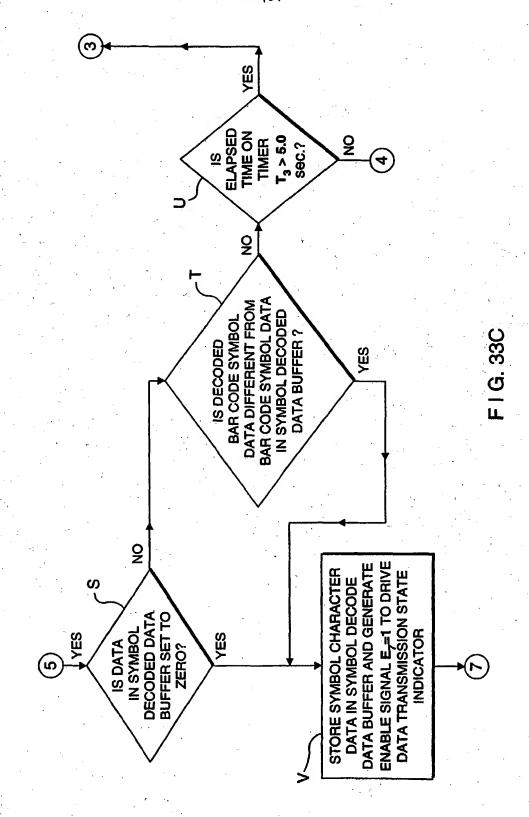
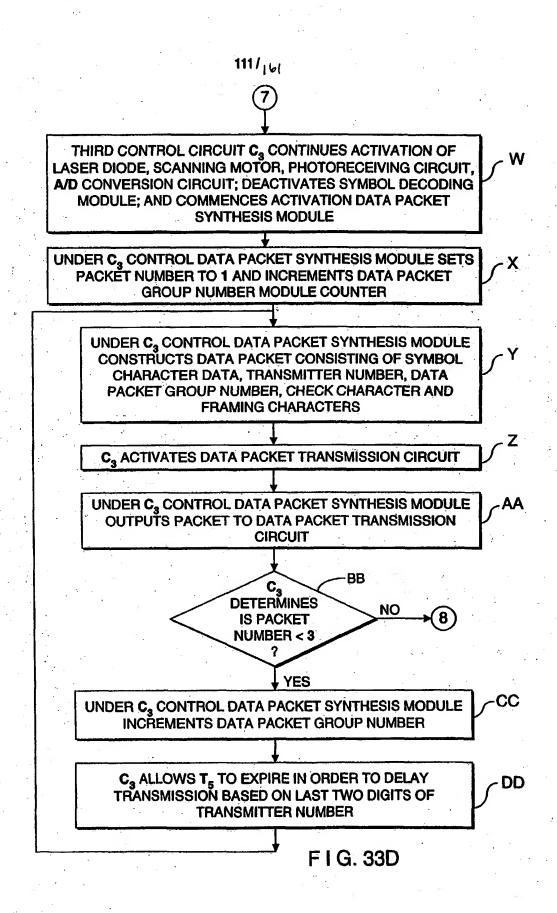


FIG. 33A1









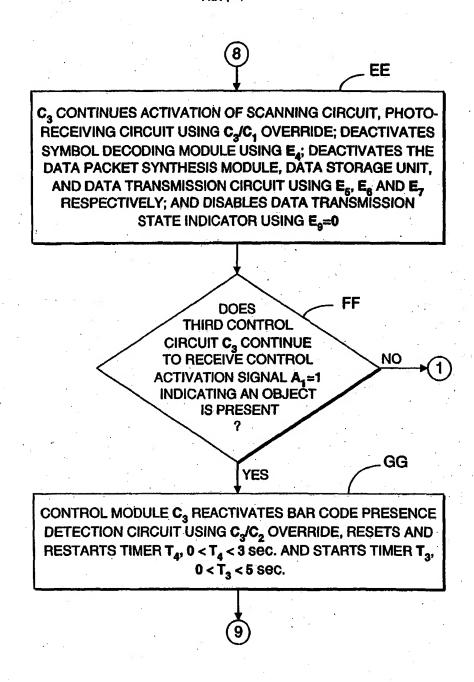


FIG. 33E

F I G. 34A

FIG. 34B1

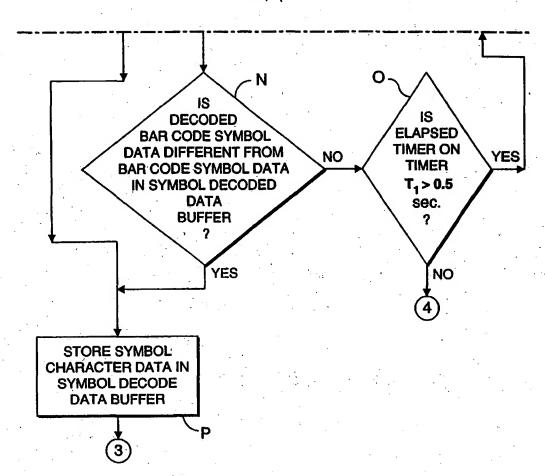


FIG. 34B2

SYSTEM CONTROLLER CONTINUES ACTIVATION OF LASER DIODE, SCANNING MOTOR, PHOTORECEIVING CIRCUIT. A/D CONVERSION CIRCUIT; DEACTIVATES SYMBOL DECODING MODULE; AND COMMENCES ACTIVATION OF DATA FORMAT CONVERSION MODULE AND DATA TRANSMISSION MODULE (AND/OR DATA STORAGE MODULE); DRIVE DATA TRANSMISSION STATE INDICATOR

WITH E<sub>DT</sub>=1

TRANSMIT SYMBOL CHARACTER DATA TO HOST DEVICE (E.G. COMPUTER, CASH REGISTER, ETC.) OR OTHER STORAGE (PROCESSING DEVICE); DRIVE DATA TRANSMISSION STATE INDICATOR USING  $\mathbf{E}_{\mathrm{DT}}$ =1, AND DISABLE BAR CODE READ INDICATOR USING E<sub>SD</sub>=0

SYSTEM CONTROLLER DEACTIVATES DATA FORMAT CONVERSION MODULE, DATA TRANSMISSION MODULE (AND **DATA STORAGE MODULE)** 

FIG. 34C

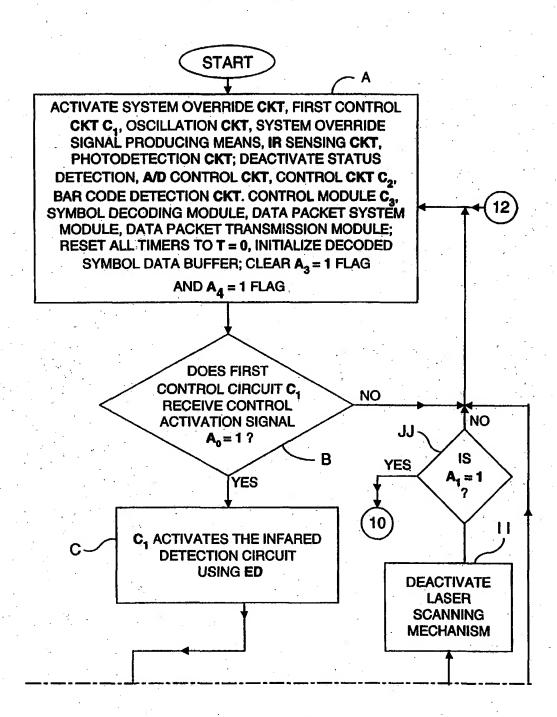
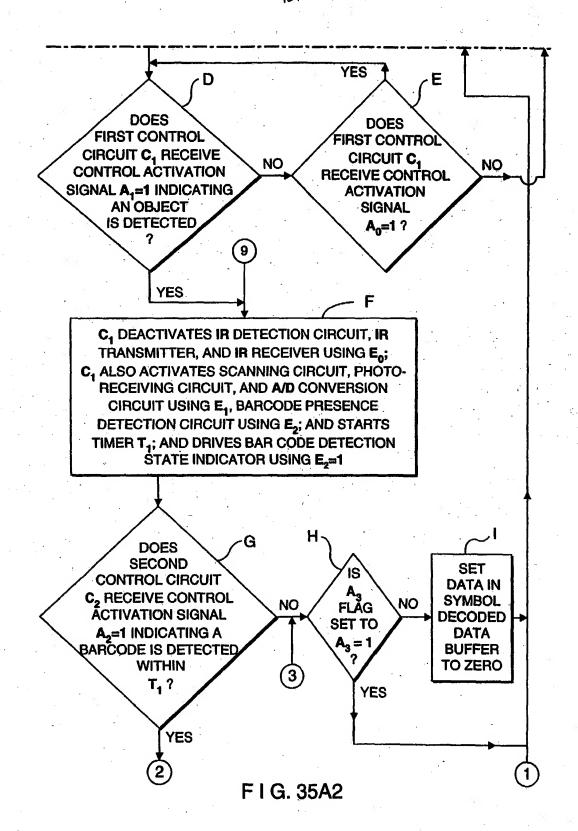
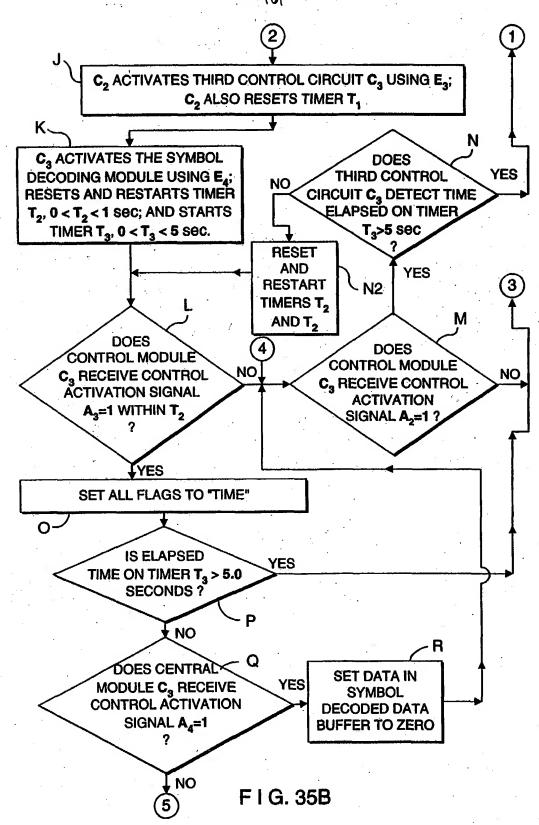
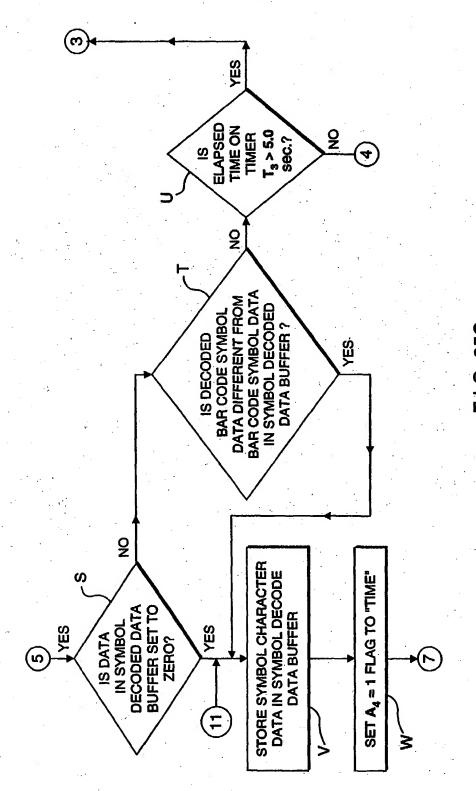


FIG. 35A1







F I G. 350

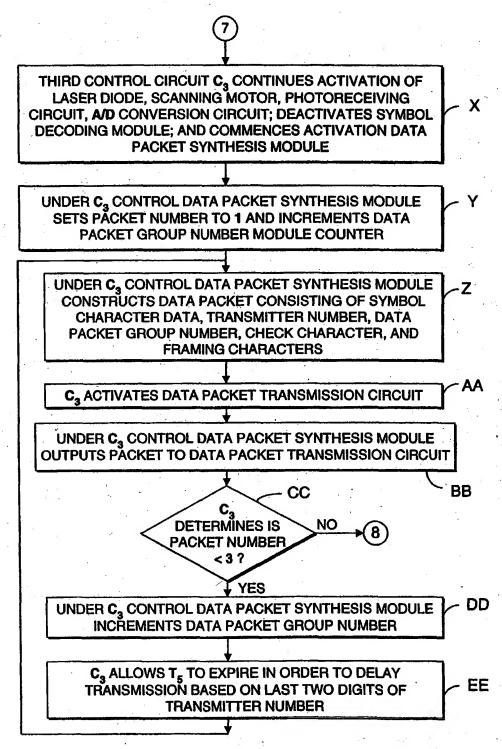
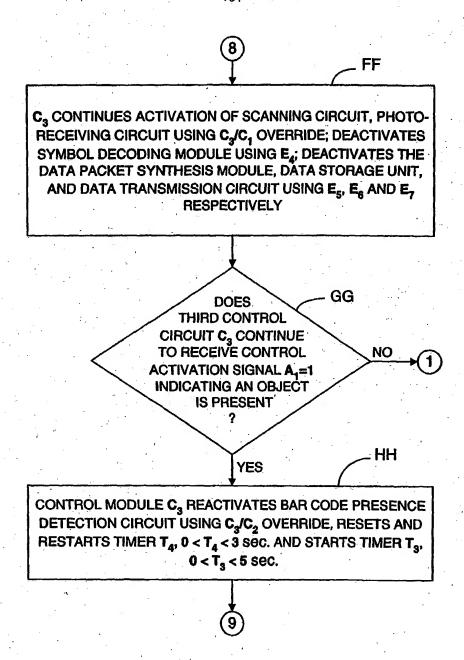
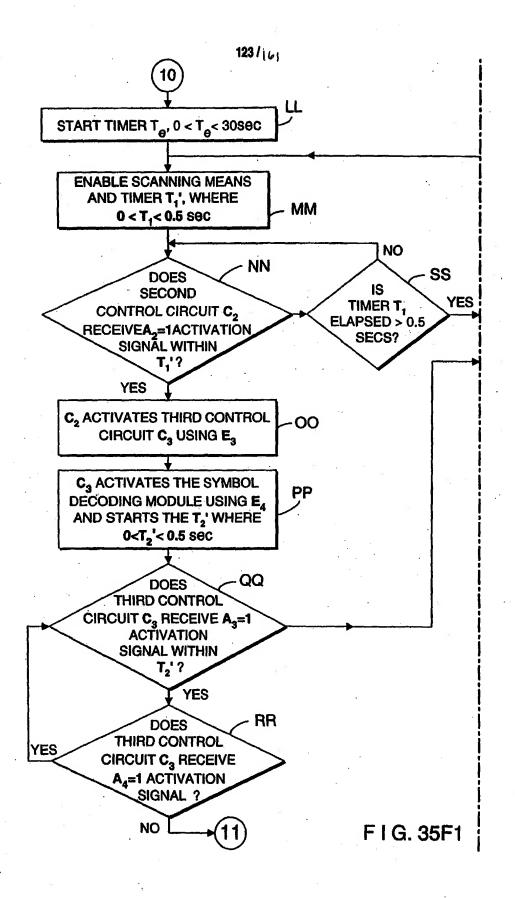
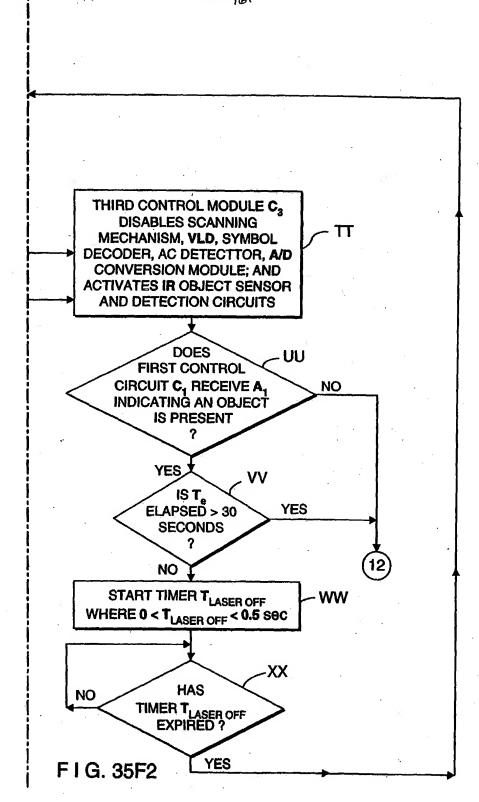


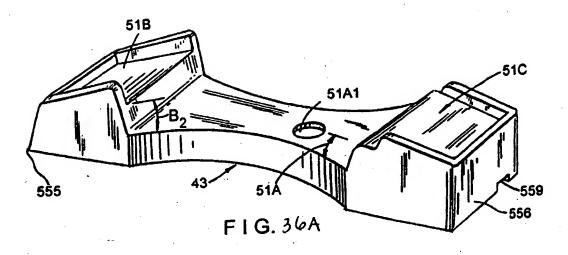
FIG. 35D

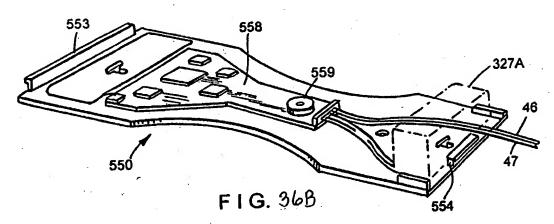


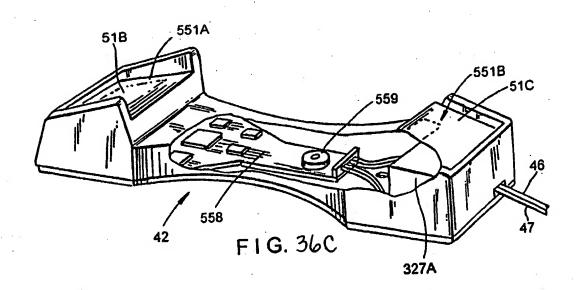
F I G. 35E

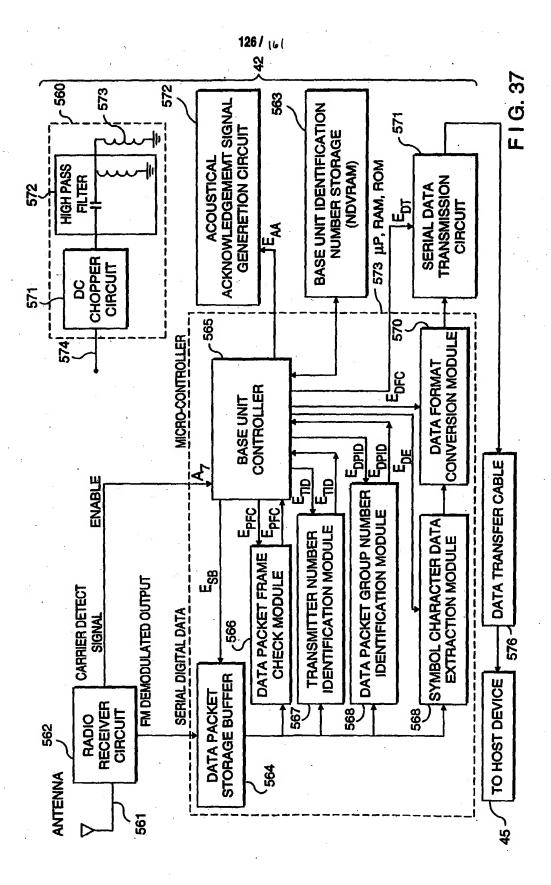


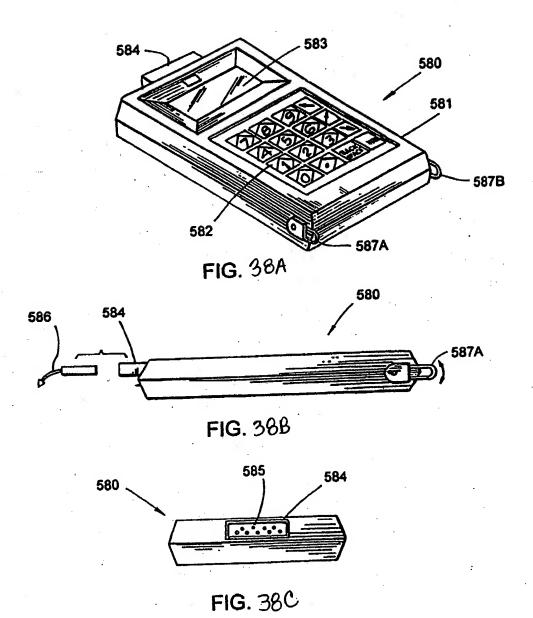












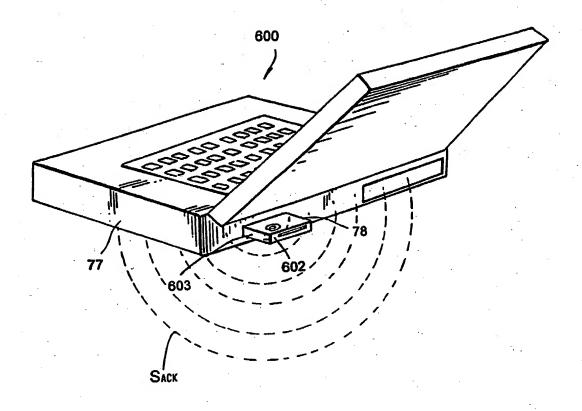


FIG. 39

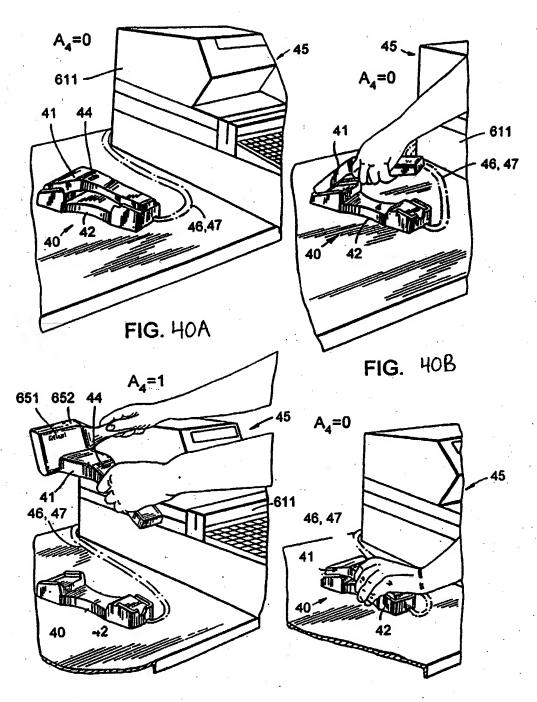
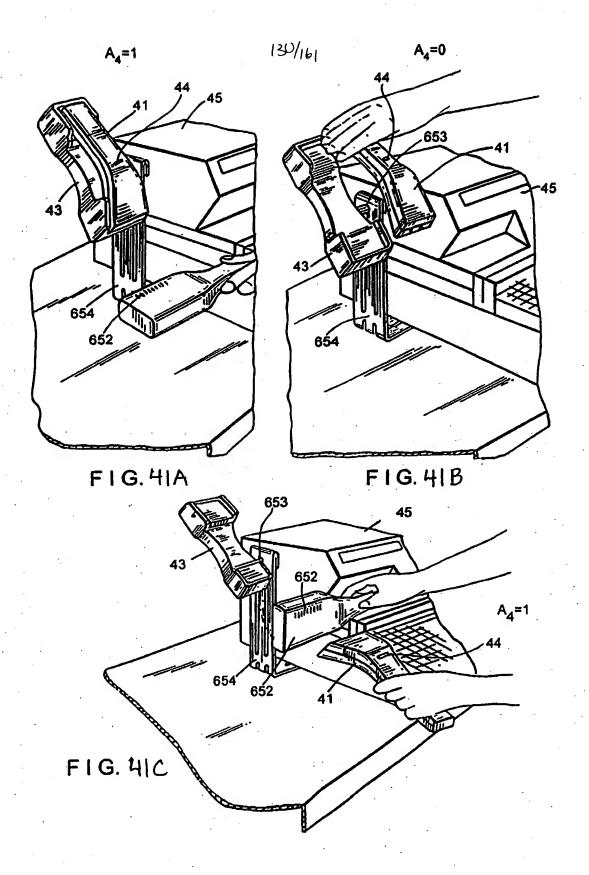
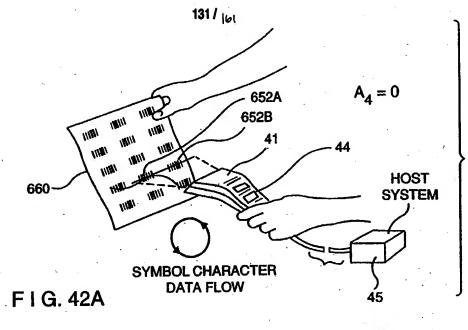
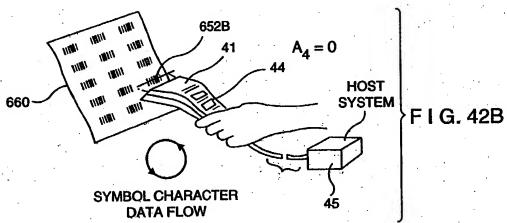


FIG. 40C

FIG. 40D







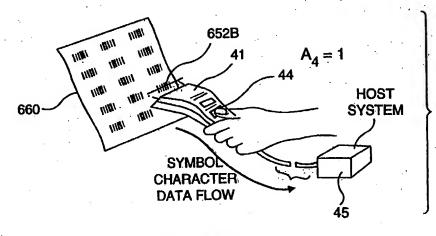
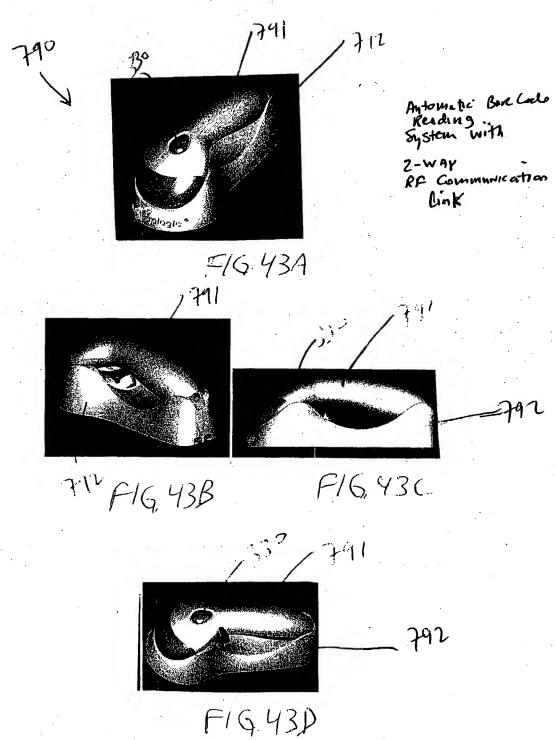
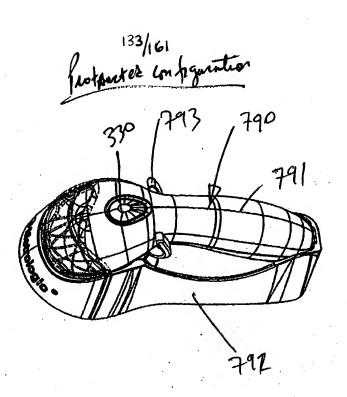
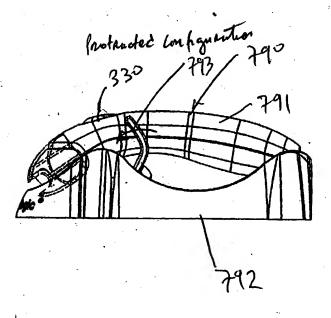


FIG. 42C

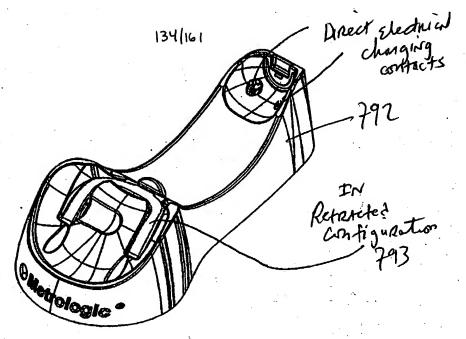




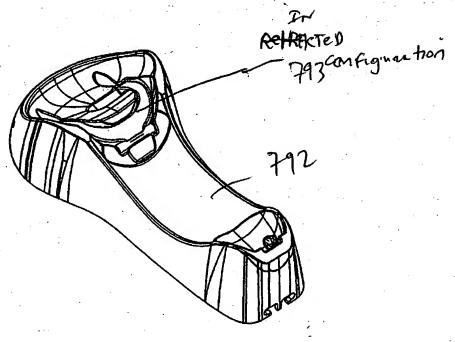


F16. 43F

F1G 43 E

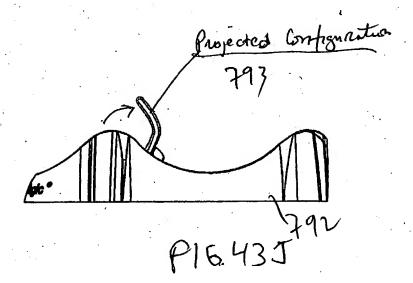


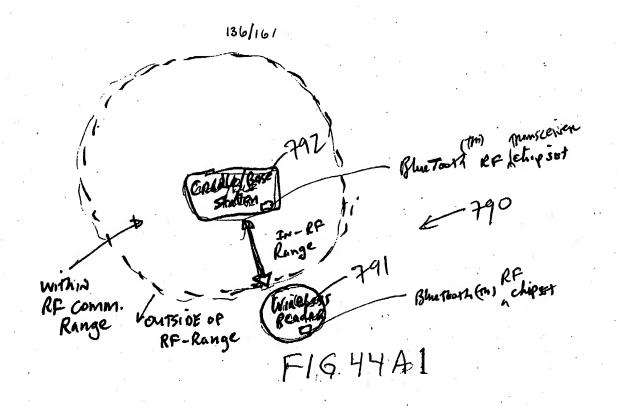
P1G 439

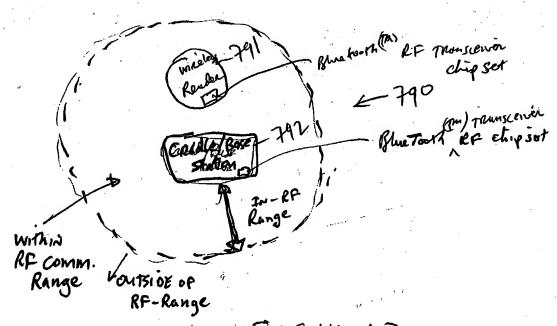


F16.43A

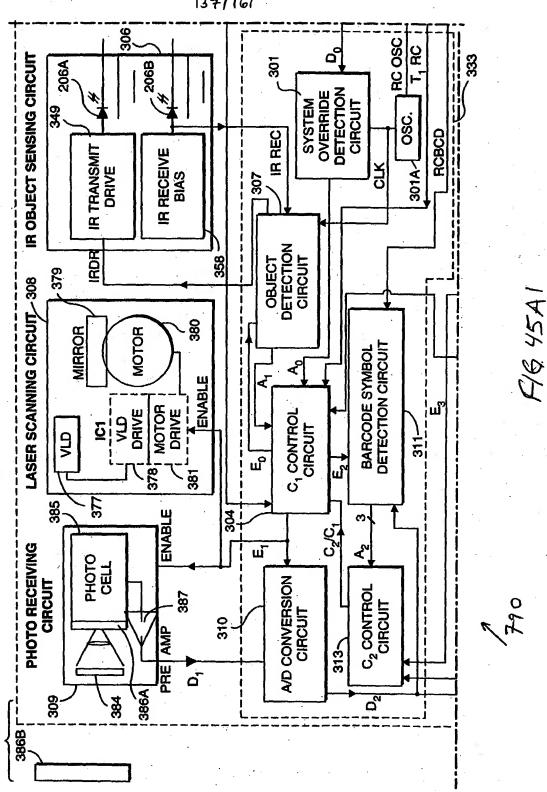
Respected configuration 793
FIG. 43 I 792

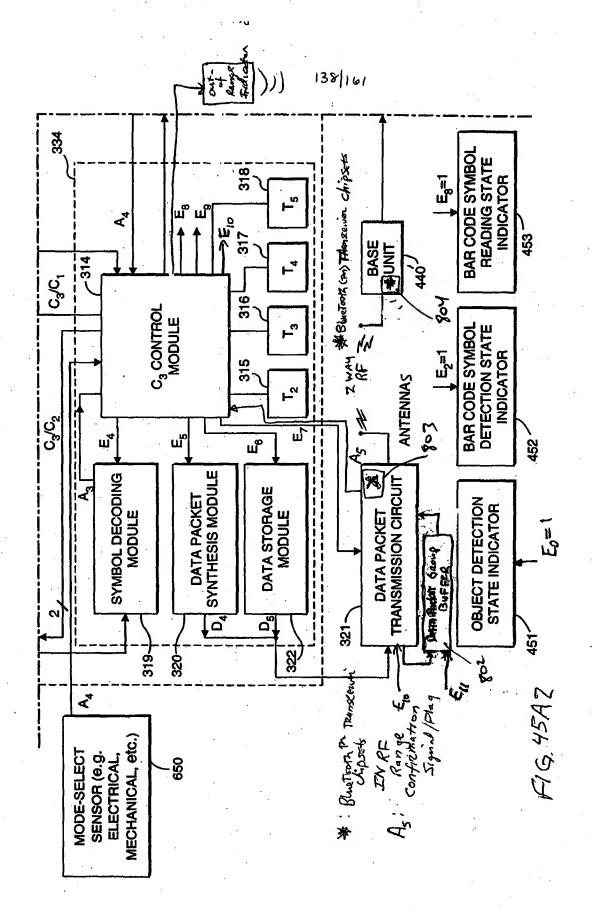


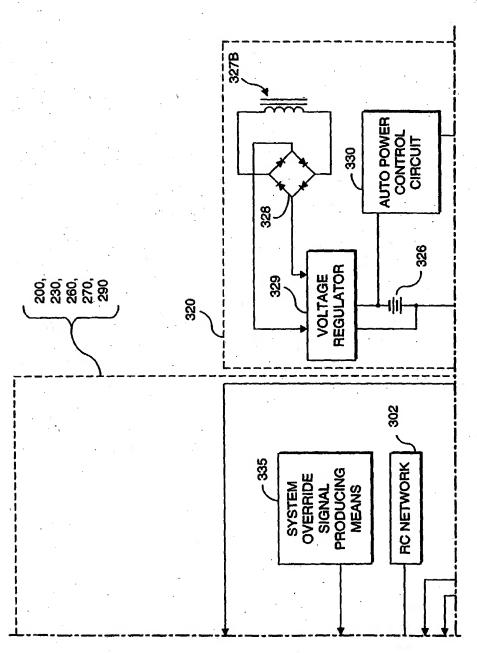


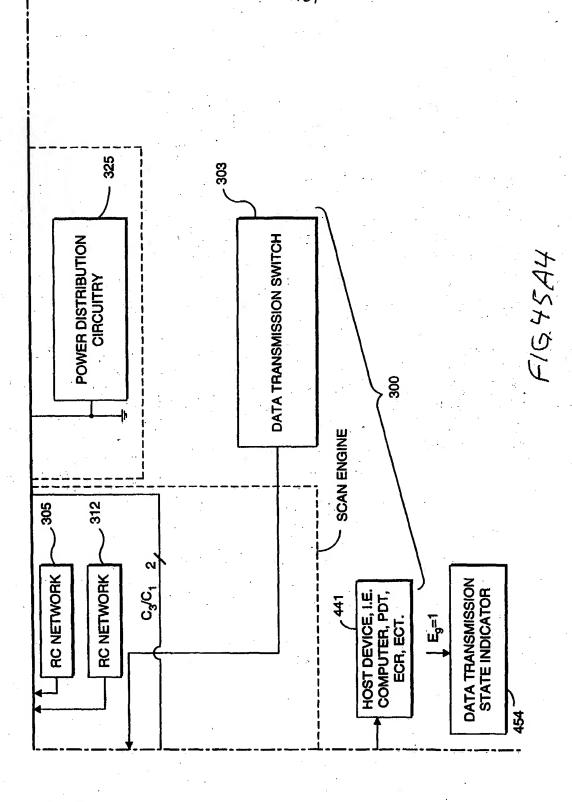


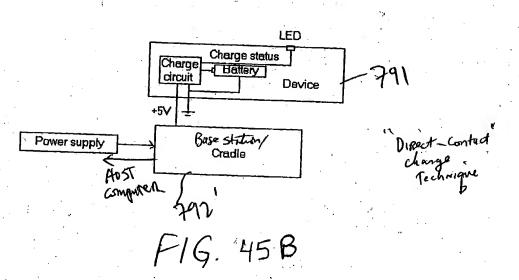
F16.44AZ

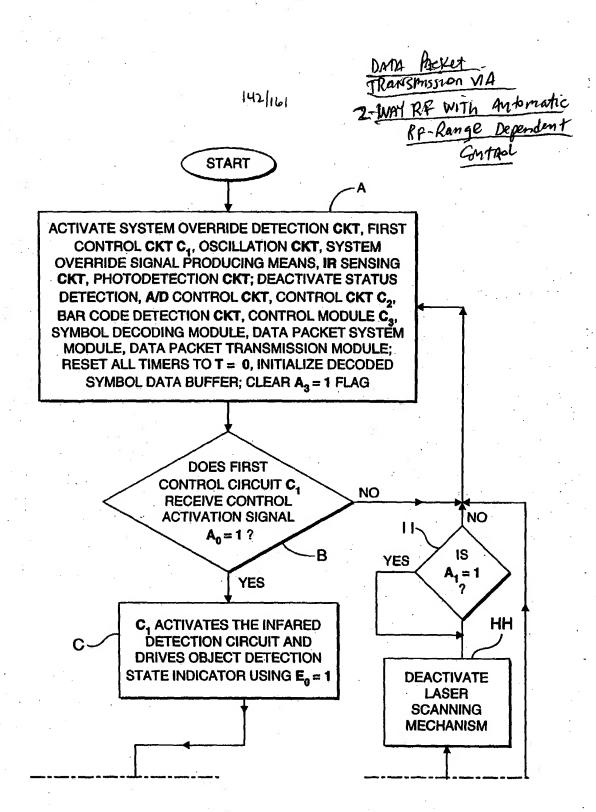




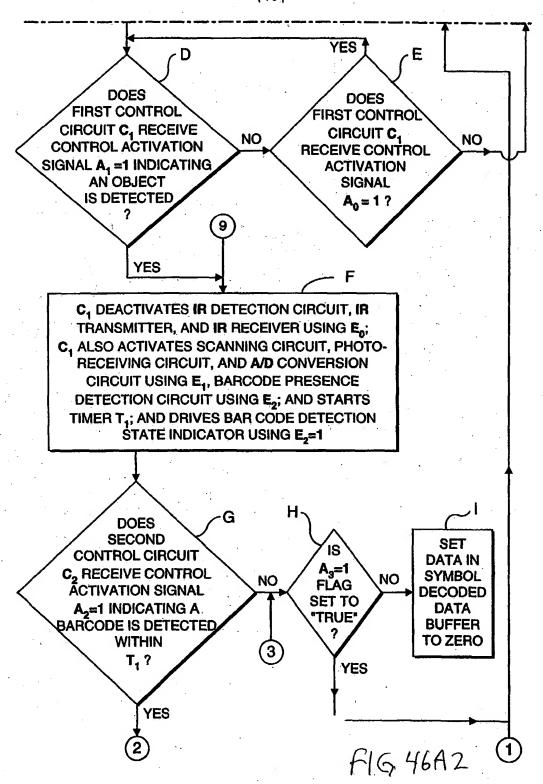


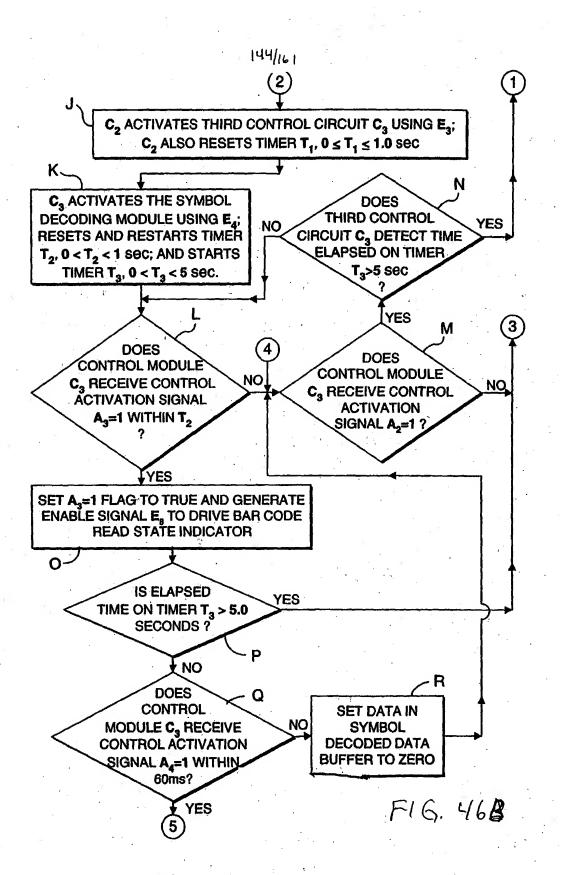






F16.46A1





TO 401

Control Module C3 Beneantes Brake Signal E10=1 boarding Comenty Synthesizes Duto facket Group Into Data Packet Transmission Circuit

F16.46CZ

C3 ACTIVATES DATA PACKET TRANSMISSION CIRCUIT

UNDER C3 CONTROL DATA PACKET SYNTHESIS MODULE
OUTPUTS PACKETTO DATA PACKET TRANSMISSION
CIRCUIT FOR TRANSMISSION
CIRCUIT FOR TRANSMISSION
CIRCUIT FOR TRANSMISSION

BASE STATION

BASE STATION

BASE STATION
BASE STATION
BASE STATION
BASE STATION
BASE STATION
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BASE STATION
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BASE STATION
BASE STATION
BASE STATION
BASE STATION
FOR BOOM

C3 CANTED TROBUSE

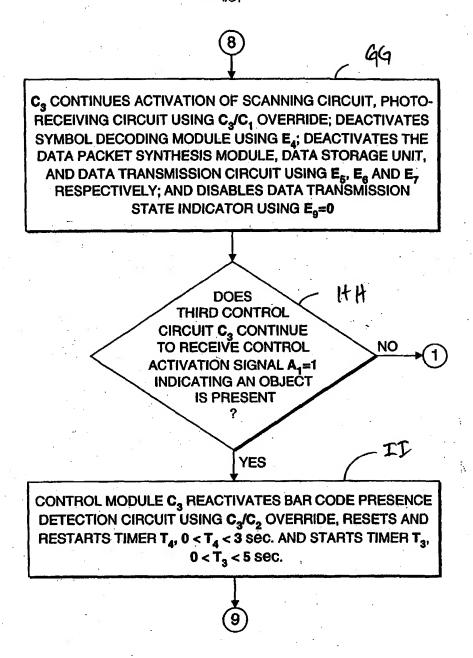
C4 CANTED TROBUSE

C5 CANTED TROBUSE

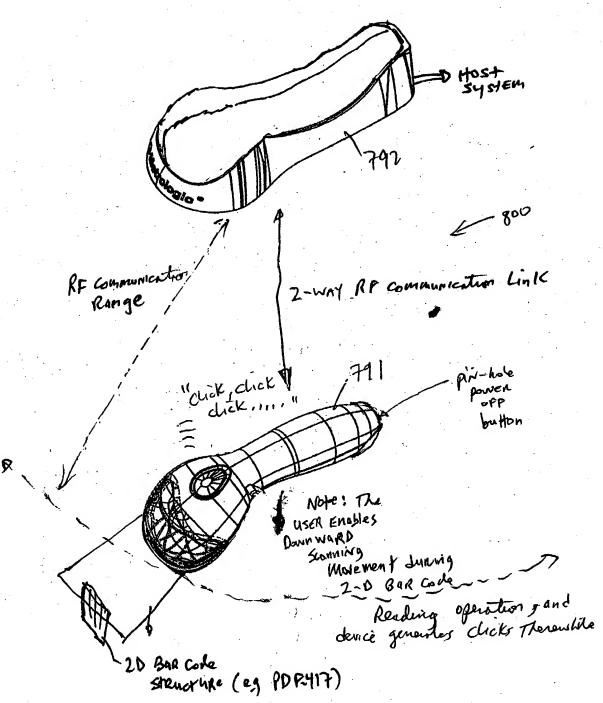
C6 CANTED TROBUSE

C7 CANTED TRO

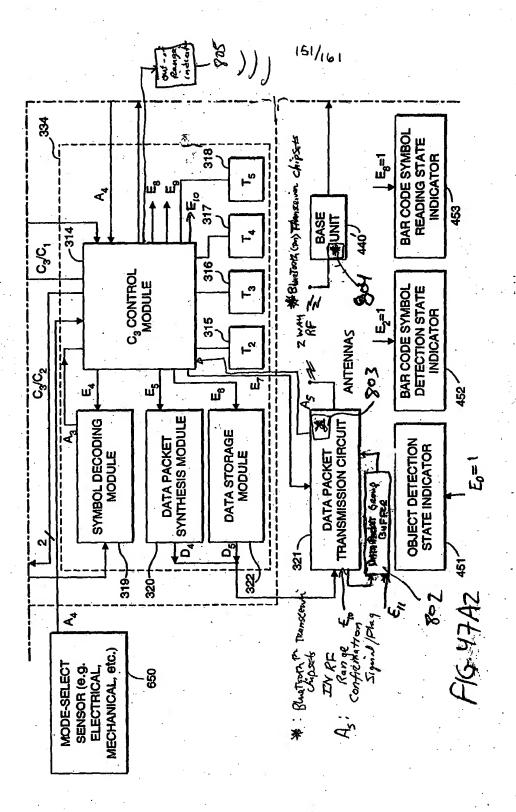
F1G. 46 C3

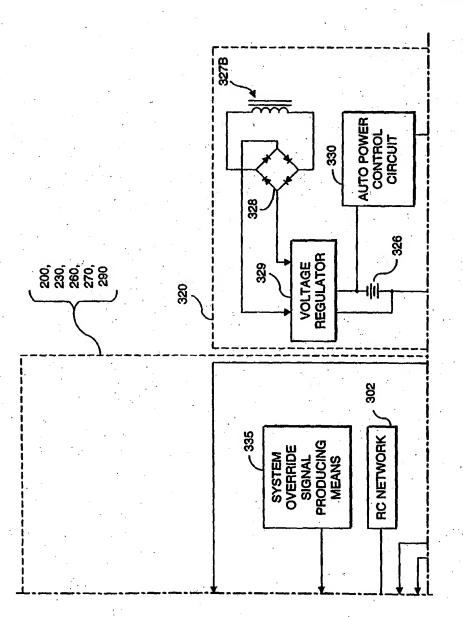


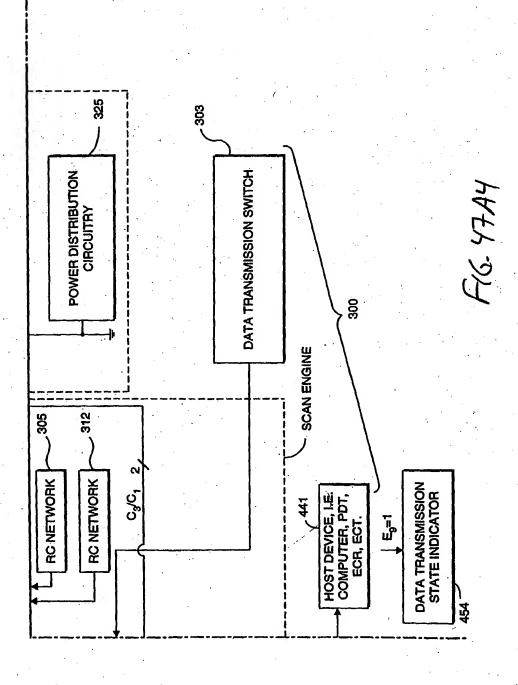
F16, 46 C4

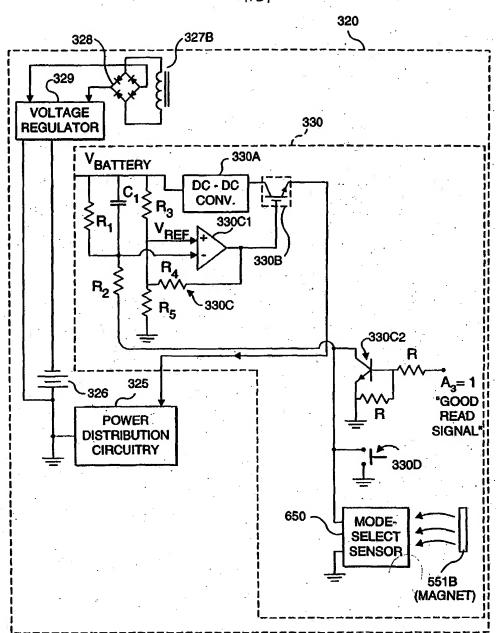


F1G.47

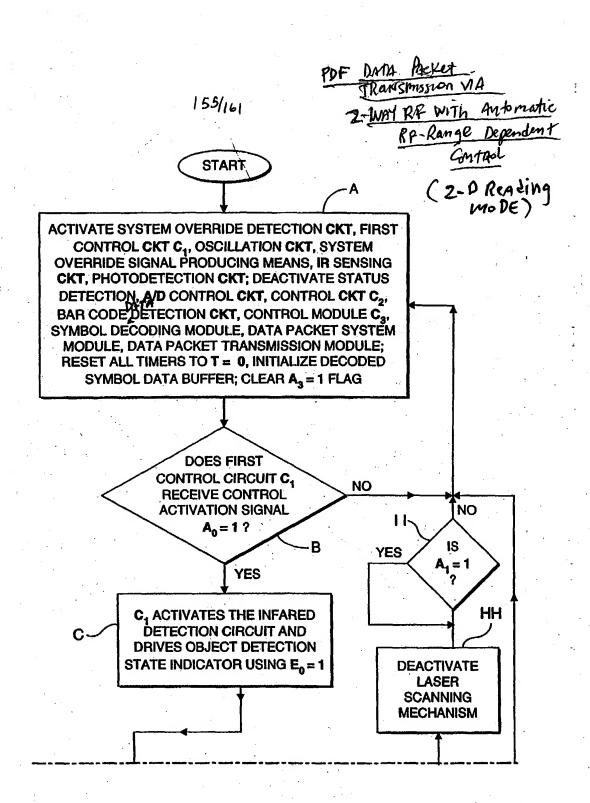




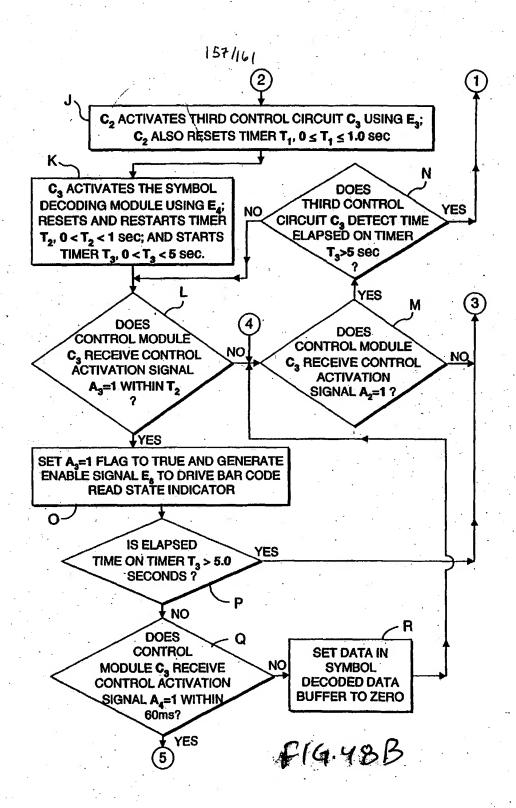


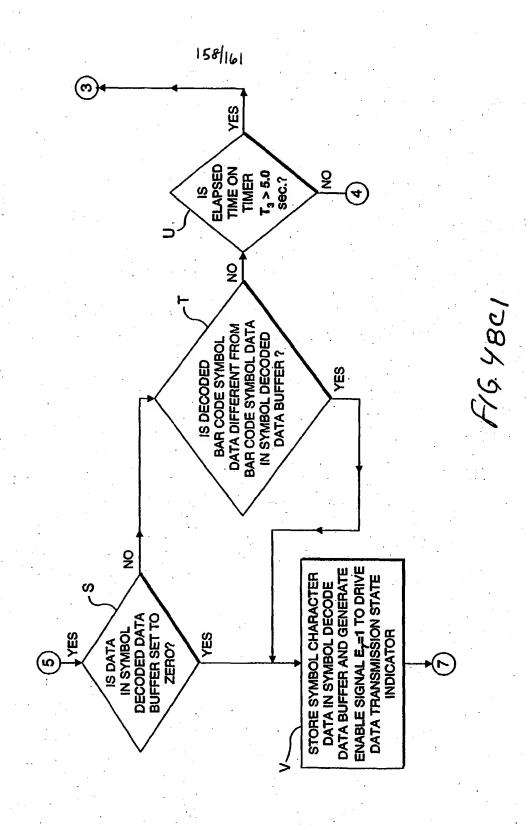


F1G. 47B



F16. 48A1





Data Prollet Transmission Circuit

F16.48CZ

UNDER C. CONTROL DATA PACKET TRANSMISSION CIRCUIT

UNDER C. CONTROL DATA PACKET SYNTHESIS MODULE
OUTPUTS PACKETSTO DATA PACKET TRANSMISSION
CIRCUIT FOR TRANSMISSION
CIRCUIT FOR TRANSMISSION
CIRCUIT FOR TRANSMISSION
FOR BASE STATION

BASE STATION

BASE STATION

BASE STATION

BASE STATION

C. CARTAL BASE TO THE MAN MAN

AND BASE STATION WHAN

EACH DATA PACKET FROM p SENT

C. CARTAL MANUAL PROCESS ALL TACKETS
EACH DATA PACKET FROM p SENT

C. CARTAL MODULE GENERAL GOOD

READ VISITAL INCICATION for Each

DATA PACKET GROMP SENT TO

BASE STATION

BASE STATION

RESENTATION

RESENTATION

RESENTATION

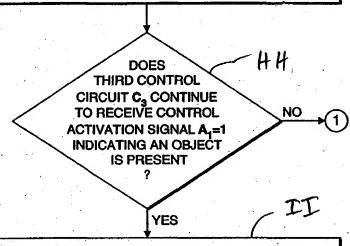
RESENTATION

FF

F1G. 48C3

96

 ${f C_3}$  CONTINUES ACTIVATION OF SCANNING CIRCUIT, PHOTO-RECEIVING CIRCUIT USING  ${f C_3/C_1}$  OVERRIDE; DEACTIVATES SYMBOL DECODING MODULE USING  ${f E_4}$ ; DEACTIVATES THE DATA PACKET SYNTHESIS MODULE, DATA STORAGE UNIT, AND DATA TRANSMISSION CIRCUIT USING  ${f E_5}$ ,  ${f E_8}$  AND  ${f E_7}$  RESPECTIVELY; AND DISABLES DATA TRANSMISSION STATE INDICATOR USING  ${f E_9=0}$ 



CONTROL MODULE  ${\bf C_3}$  REACTIVATES BAR CODE PRESENCE DETECTION CIRCUIT USING  ${\bf C_3/C_2}$  OVERRIDE, RESETS AND RESTARTS TIMER  ${\bf T_4}$ ,  $0 < {\bf T_4} < 3$  sec. AND STARTS TIMER  ${\bf T_3}$ ,  $0 < {\bf T_3} < 5$  sec.

**(9** 

F1G. 48C4